

Interviews

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AMPHIPOD NEWSLETTER 41

Dear friends,

It is not many days left until many of us meet in Trapani to talk amphipods and be together with friends. This deep feeling of friendship and respect is what we feel most defines our little society - the Amphipodologists. We meet in small or large groups for workshops or collection-trips, or we work alone in between the meetings - we might not even go to all the meetings, and all the time the friendship is there helping our science along. Many of the marine amphipodologists have met at the IceAGE workshops in Wilhelmshaven (see AN40) and this April in Spala (p. 51) - and next spring there will be an opportunity for the beach-lovers to meet in Crete (p. 50).

This summer has presented us with the sad loss of our good colleague Murat Sezgin of the Sinop University on the Black Sea coast of Turkey. Living legend Torben Wolff of the Zoological Museum in Copenhagen passed away this spring - 97 years old. Torben, a member of the second 'Galathea' expedition and one of the first to document life in the abyssal zones of the sea, worked on his beloved deep-sea critters almost until his last day. We also remember Ed Bousfield.

The bibliography for this Amphipod Newsletter presents 419 papers on amphipods. Publications are on broad biodiversity studies, toxicology, ecology and systematics. Lowry and Myers have again presented us with a benchmark paper on the higher classification of the Amphipoda - which we are sure will be further discussed in Trapani.

Last - but not least - the interview of this Amphipod Newsletter presents our hyperiid colleague Wolfgang Zeidler from the South Australian Museum in Adelaide. The distance - both geographic and working on planktonic amphipods more than freshwater or benthic - might be a reason many might not know Wolfgang, but we hope to rectify that a bit with this interview.

Best wishes from your AN Editors,

Wim, Adam, Miranda and Anne Helene

Statistics from this Newsletter

1 new order

12 new families

14 new genera

79 new species

1 new subspecies

Interview with Wolfgang Zeidler

Interviewing anyone 9 timezones away from you will present a few logistic problems. Thus, most of this was done via email, with a very nice skype-session in the end. That means that Wolfgang has written all his answers, as well as a short introduction. So - from here it is all Wolfgang:

To all my dear gammaridean colleagues: because I study hyperiideans, a pelagic group that spend part or all of their life cycle associated with gelatinous plankton, I have had very little direct contact with you, although I am mainly aware of your good work. Also, because there are very few scientists working with hyperiideans, and most are ecologists, I am almost alone in the world of hyperiidean systematics. But be not alarmed for I am quite happy working on my own, although I do appreciate the few interactions and collaborations that I have had with other colleagues.



Wolfgang. Photo: private

When and why did you start studying amphipods?

Amphipods were not my first scientific interest. As a young graduate my ambition was to become a fisheries biologist thus combining my recreational passion for fishing with a career. Unfortunately, then as now, there were few jobs anywhere in Australia in marine science. So, according to the old proverb “those who cant do - teach“ I did my penance teaching biology and science in Adelaide schools for 18 months before moving to Sydney to take up a position as Tutor in biology with the University of New South Wales. After about 18 months in the big smoke I was fortunate enough to obtain a scholarship to study for an MSc in Marine Science at the James Cook University of North Queensland, Townsville. At the time the Australian Government was very concerned about the effects of the apparent plague of ‘Crown of Thorns‘ starfish on the Great Barrier Reef and so it was relatively easy to obtain grants for shiptime and associated research. Thus, I was able to access (and collect some myself) plankton samples

collected fortnightly between Townsville and the GBR (for starfish larvae), over a period of about two years, to study the distribution and abundance of hyperiidean amphipods (Zeidler 1978, 1984). But first I had to overcome the taxonomic impediment of hyperiidean systematics. The literature was generally poor and sometimes difficult to obtain (no internet in those days). But this challenge ignited my passion for systematics and the detective work required.



Trawl deck. Not the easiest place to sample amphipods! Photo: private

Fortunately the taxonomic experience acquired for my MSc led to my employment

with the South Australian Museum as ‘Curator of Marine Invertebrates’. So, back home, the circle completed! I soon discovered that my museum title was a misnomer and that my curatorial responsibilities covered all invertebrates (marine, freshwater & terrestrial) except for insects, arachnids and helminths. Sadly much of the collection was in poor shape, and so it was that I lost my way in science for the first few years while I tried to get the collection in order. Also, marine science was not on any government agenda.



Backyard fisher: the herons finishing off the fish in the backyard pond.

Photo: private

However, the SA Museum had a strong focus on arid-zone research and it was relatively easy to organise field trips to most of Central Australia and beyond. One of the most memorable trips was to the Lake Eyre region when it was flooded in the mid-1970's. On the way I discovered the fauna of the artesian springs of the Great Artesian Basin, resulting in many future trips to the region and other artesian springs in central and north-eastern

Australia. The spring fauna is dominated by several species of molluscs, ostracods, one phreatoicid isopod and of course amphipods. For many years I tried to determine if only one widespread species was present or if, as I suspected, speciation had occurred in the different, geographically isolated, spring groups. The springs equating to aquatic islands in a desert. Unfortunately, I was unable to make much progress using morphological techniques and, at the time, molecular technology had not been developed or was too expensive. I described two new species, *Austrochiltonia dalhousiensis* and *Phreatochiltonia anophthalma*, and decided to abandon the project for the time being. It was taken up later by my colleague, Dr Rachael King, who has done a great job so far in describing several new species and genera. By then I had returned to the systematics of hyperiideans to complete the obligatory PhD and had no time for gammarids. Having lost my way with amphipods and published papers on mollusca, echinoderms and other crustaceans I decided it was time to tackle the suborder Hyperiidea as a whole, sorting out minor problems and revising the systematics of the group by superfamily with a view to publishing a guide to the world fauna. To date I have completed most of these revisions and the guide book is already up to 700 pages, excluding figures. Looks like it might have to become two volumes.

Sorry that was a rather long-winded answer to the question but I thought you might be interested in my journey.

What are your favourite amphipod species names?

Most hyperiid names are boring, named after localities, expeditions, friends and enemies (if it is an ugly one with filthy habits). So, maybe one of my own, the phreatic, spring related, gammarid *Phreatochiltonia anophthalma*. The generic name readily identifies it as phreatic and the species name refers to it as

being without eyes. It is a favourite because I had intended to name it for being blind but a good colleague asked the question “how do you know that it can’t see“. I am now more careful when composing names for new taxa.

What amphipod appendage(s) do you like illustrating the best?

I have always enjoyed art so executing my own scientific illustrations is often the most satisfying part of my research. However, unlike gammarids, the segments and coxae of hyperiids are not always clearly defined and drawing whole animals can be frustrating, especially very small species. Some are mature at 2-3 mm.



Oxycephalus sp. Photo: Karen Osborn

What amphipod appendage(s) do you like illustrating the least?

None of them - I like them all! The act of illustrating is an interesting challenge, and it helps the scientist (who should do the illustrations themselves, by the way, not give away this important job to the artists) to see better. We get to really look for the characters – check that they really are there and are not just something we think we see, and this makes the whole job sounder.

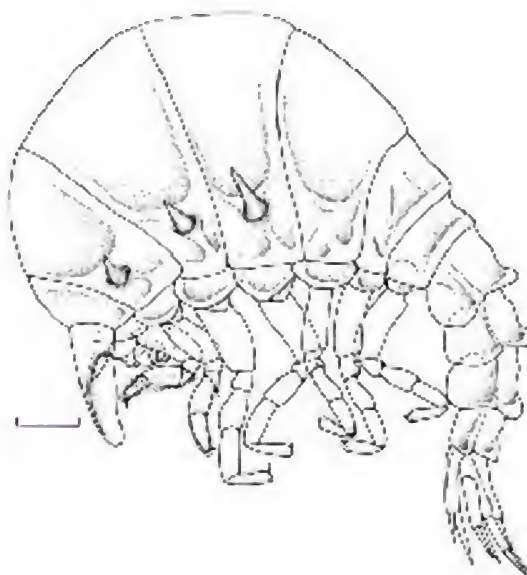
Where is your favourite place to collect amphipods?

Collecting hyperiid amphipods is not an easy task and requires the use of a boat and



At Mawson Base in Antarctica. Photo: private

plankton nets, preferably in oceanic waters. Hence, most of my research time has been spent with collections collected by past expeditions, housed in the major museums in Europe and North America. However, there is nothing more exciting than collecting specimens yourself and no place more magnificent than Antarctica. I was fortunate to be on the maiden voyage of the *Aurora Australis* to Heard Island and the Kerguelens during the mid-winter of 1990 and again to Prydz Bay during the summer of 1991, both courtesy of the Australian Antarctic Division, Hobart.



Chonerola spinifera. Illustration: W.Z.

Places you wished you never tried to collect amphipods?

I have always enjoyed collecting, regardless of the environment, but perhaps digging up, by hand, the rotting carcass of a cow from an artesian spring to collect animals clinging to it would not be repeated too readily. Still there was great delight and satisfaction when amphipods were found.

Describe/name the most memorable amphipod moment(s)?

There are several, each when discovering, amongst collections, representatives of species previously known only from the unique holotype. Often it is the only other specimen in the world. It's almost magic! Examples are *Lanceola longidactyla* Vinogradov, 1964 (one more in Copenhagen); *Megalanceola remipes* (Barnard, 1932) (several in Smithsonian); *Chuneola spinifera* Vinogradov, 1960 (one in Copenhagen); *Scina chelata* Vinogradov, 1970 (one in Smithsonian) and *Cheloscina antennula* Shih & Hendrycks, 1996 (one in Smithsonian). NOTE to editors: there are some that discourage the description of new



Rhabdosoma sp. Photo: Karen Osborn



Backyard beauty: Eastern rosella. Photo: private

species based on a unique holotype. While one should be cautious, not publishing would have meant that the above species would have remained unknown and the fact that there are now at least two specimens of the same species would also remain unknown.

I have also had some memorable moments discovering phreatic amphipods in the springs of northern Australia. For a long time Australia was considered too dry to harbour a significant phreatic fauna. We now know that this is far from the truth, especially in north-western Australia. So, it was very exciting to find these animals in ground water, or springs, in parts of the country that are considered a desert. Of course we now know that if we look hard enough we can find these animals where ever springs are found, even if they are only active after a good season of rain.

Describe/name your most memorable amphipod meeting(s)?

International travel from Australia is relatively expensive and time consuming and this, combined with a lack of funds, and little interest in gammarids, has meant that I have made no effort to attend past amphipod meetings. That does not mean that I don't like my gammarid colleagues!

We know the work with other scientists can shape your life. We are sure many will like to hear about such your experiences if you'd like to share...

Sorry when it comes to hyperiids I am very much a lone wolf, mainly because when I started my hyperiidean journey I was the only one working on the group, as a whole, outside of Russia. Also, here in Adelaide, I was the only marine invertebrate taxonomist and not much has changed since. Meetings with interstate, or international colleagues, usually involved discussions regarding taxonomy in general, with few opportunities for collaboration. Perhaps my joint fieldwork with Dr Winston Ponder, a malacologist from the Australian Museum (now retired), working on the fauna of the artesian springs, is the most significant for me because he encouraged me to pursue my research work and not to be afraid to publish. We spent many years



More backyard beauties - especially for all you bird-loving amphipodologists! Musk and Rainbow lorikeets. Photo: private



Not an invertebrate: the Koala. Photo: private

collecting and studying the fauna of the springs of the GAB, highlighting the significance of these fragile habitats in publications etc., resulting in most of them being preserved in national parks. That was a most gratifying result.

Oh! Then there is the collaborative work I did with Dr Lisa Gershwin on the jellyfish fauna of Australia in the early 2000's. Yes what was I thinking? Well because hyperiids are associated with gelatinous hosts I started to take in interest in them and kind of got sucked in, helped by Lisa's enthusiasm for everything jellyfish, and taking the opportunity of her presence in Adelaide. It was a very productive collaboration, we published 9 papers (218 pp) and described 2 families, 3 genera and 31 species new to science. Thankfully I have slowly extricated myself from this project but

there are still some significant results that remain unpublished.

Any other general thoughts/comments?

While a lot of gammaridean taxonomists have been able to include molecular work in their studies this has been more difficult for me with hyperiids. This is because hyperiids, being pelagic, are collected in plankton samples which are almost always first fixed in formaldehyde to preserve the gelatinous plankton. Thus, the only way to obtain specimens for molecular work would be for me, or someone who knows hyperiids, to be present when plankton collections come on board to extract hyperiids before samples are preserved. However, I am making some progress in that direction. Currently Dr Charlotte Havermans and I are trying to sort out the mess that is the genus *Themisto*. Charlotte is in charge of the molecular work and I am doing the morphology. We now have material from most parts of the world but we always welcome more material from anyone who is prepared to send it to us. *Themisto* is a very common genus in Arctic and Antarctic waters, sometimes as abundant as krill and an important food source for birds, penguins and other marine predators. NOTE to ecologists playing with *Themisto* watch this space!



Eupronoe sp. Photo: Karen Osborn

One of the reasons I have continued with my research – and the reason I am working on the big book – is to pass on the knowledge I have gathered, rather than just go fishing or travelling to art-galleries overseas. Much of the information about the species should also end up in WoRMS.

Thank you so much for your interest, if you got this far!

Anne Helene and Wolfgang

Compilation of Amphipod relevant literature

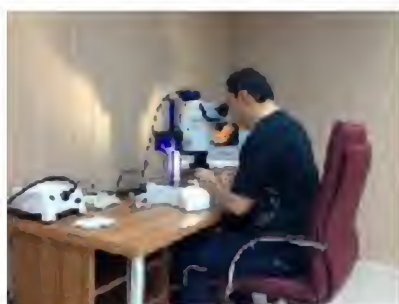
Please tell the AN editors and Olli Coleman about your recent publications on amphipods - and send a pdf of your paper. Olli can include it on the server and the editors can include it in the bibliography....

Prof. Dr. Murat Sezgin in Memoriam

Prof. Dr. Murat Sezgin, a complete, brilliant scientist focused on marine biology and an expert on marine Amphipod species of Turkey, passed away on 28.07.2017 because of a deplorable traffic accident near Sivas province, Turkey.



He was born in 1974 in Malatya Province, Turkey. He completed his PhD thesis in 2003 at Ege University, İzmir on "*Sublittoral benthic amphipod species of Aegean coasts of Turkey and their bio-ecological features*". Then, he continued his academic career in Sinop University, Faculty of Fisheries where he established a marine benthology team in a few couple of years and became a professor in 2013.

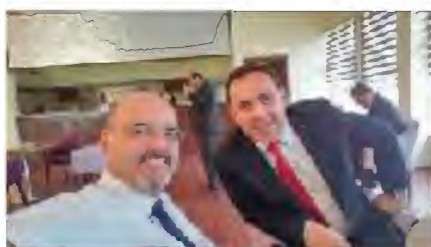


From the beginning of 2016 Prof. Dr. M. Sezgin served both as the vice chancellor and the Dean of his faculty.

During his short but fruitful academic life, he participated in many international scientific activities and in 2008 he was awarded the "*Most Promising Young Scientist in the Field of Marine Ecology*" by the Commission on The Protection of the Black Sea Against Pollution (Sofia,

Bulgaria). He published 95 papers in peer reviewed journals, mainly on marine biology and ecology of the Black Sea. He was the author of more than 45 communications in national and international conferences. He collaborated in umpteen projects, most of which were international or FP7 projects and became a known and respected scientist abroad, particularly in the other Black Sea countries, mostly in Romania, Bulgaria and Ukraine due to his work-discipline and gentle personality.

In his last years, Prof. Sezgin also became a new light for the study of meiobenthology in Turkey by coordinating two international projects and guiding his team for their training, resulting in two PhD and a MSc thesis and several pioneering papers on marine meiofauna. His name has recently been attributed



to a tardigrade species (*Megastygarcoides sezginii*), description of which will be published in the upcoming issue of the journal of Marine Biology Research.

Prof. Dr. Murat Sezgin was married and had a 7 years old son who also passed away because of the accident.

Rest in peace my friend, with your beloved son...

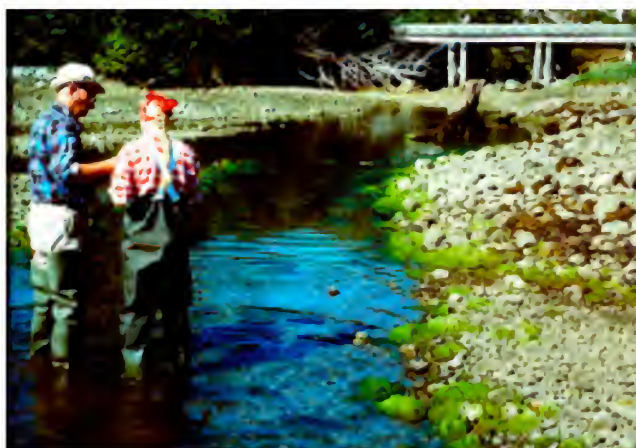
Murat Özbek, Levent Bat & Derya Turk Urkmez

Edward Lloyd Bousfield (1926-2016) in Memoriam

It is with a heavy heart and with great sadness that we inform you of the passing of Dr. Edward Bousfield on September 7, 2016

He was an exceptional scientist, one of the BIG Guns so to speak, a world authority on the systematics of amphipod crustaceans. He discovered and described over 300 new species and he had 22 named in his honour. Ed joined the Canadian Museum of Nature (CMN), then the National Museum of Canada in 1950 after obtaining his BA and MA at the University of Toronto (1948 and 1949) and PhD at Harvard University (1954). Following his retirement in 1984, he continued as Research Associate at

CMN, the Royal Ontario Museum in Toronto and the Royal British Columbia Museum in Victoria. Ed was pivotal to the 20th century growth of the CMN invertebrate collections through his widespread fieldwork which resulted in the contribution of over a million specimens. In 1995, Dr. Paul LeBlond and Ed formally described the large aquatic mega-serpent *Cadborosaurus willsi* in coastal north Pacific marine waters and large deep water lakes of the boreal northern hemisphere. Ed mentored numerous young scientists throughout his illustrious career (a few are still at the museum today) and influenced science through his key roles in scientific societies. In 1978, Ed was elected Fellow of the Royal Society of Canada and in 1985 he received the Government of Canada's Outstanding Achievement Award. Even at nearly 90 years of age, Ed continued to travel to the CMN from Toronto to work on amphipods, his love of 66 years! Amphipods were definitely his "way of life".



From 1993 to the last published issue in 2004 Ed Bousfield was Managing Editor of *Amphipacifica*, a journal of aquatic systematic biology. The journal was initiated in the early nineties when he was involved (with colleagues) in production of monographic papers on North American Pacific amphipods that proved overly large for standard scientific journals. *Amphipacifica* was thus set-up to overcome this problem and between 1994 and 2004, three volumes, each of 4 issues were published. In 2006, through the work of Michel E. Hendrickx and his team, all back issues of *Amphipacifica* were scanned and PDFs made for distribution on CD ROM so that access was made freely available to all amphipodologists. These PDFs are now available through the Aphia database (see: <http://www.marinespecies.org/amphipoda/aphia.php?p=sourcelist&sName=Amphipacifica>).



Ed Hendrycks & Kathy Conlan

An extensive obituary for Ed was published in *The Canadian Field Naturalist* 130, 359-372.

Missing Amphipod Newsletter issue number 10? Or maybe issue number 16? Good news!! All issues of the Amphipod Newsletter are now available at the Biodiversity Heritage Library – <http://www.biodiversitylibrary.org/>



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FRUTOS, I., A. BRANDT & J. C. SORBE 2016. *Deep-sea suprabenthic communities: The forgotten biodiversity*. ---- Pp 1-29 in S. Ross (ed.). *Marine Animal Forests*. Springer International Publishing.

GALIC, N. & V.E. FORBES 2017. Effects of temperature on the performance of a freshwater amphipod. ---- *Hydrobiologia* 785, 35-46. (*Gammarus pseudolimnaeus* eat more and die easier in warmer water.)

GALIC, N., V. GRIMM & V. FORBES 2017. Impaired ecosystem process despite little effects on populations: modeling combined effects of warming and toxicants. ---- *Global Change Biology* 23, 2973-2989 (*Gammarus pseudolimnaeus*.)

GALIPAUD, M., L. BOLLACHE & C. LAGRUE 2017. Variations in infection levels and parasite-induced mortality among sympatric lineages of native amphipods and a congeneric invasive species: Are native hosts always losing? ---- *International Journal for Parasitology: Parasites and Wildlife*, in press (*Gammarus pulex/fossarum* vs *G. roeselii*)

GARCIA, A. F., M. BUENO & F. P. P. LEITE 2016.. The Bostrychietum community of pneumatophores in Araca Bay: an analysis of the diversity of macrofauna. ---- *Journal of the Marine Biological Association UK* 96, 1617-1624. (*Chelorchestia darwinii* very numerous.)

GARCIA-GALAN, M. J., M. SORDET, A. BULETÉ, J. GARRIC & E. VULLIET 2017. Evaluation of the influence of surfactants in the bioaccumulation kinetics of sulfamethoxazole and oxazepam in benthic invertebrates. ---- *Science of the Total Environment*, in press (*Gammarus fossarum*)

GARTNER, H. N., C. CLARKE-MURRAY, M. A. FREY, J. C. NELSON, K. J. LARSON, G. M. RUIZ & T. W. THERRIAULT 2016. Non-indigenous invertebrate

species in the marine fouling communities of British Columbia, Canada. ---- *BioInvasion Records* 5, 205-212. (Nine amphipod species in Table 1)

GASCA, R & W. E. BROWN 2017. Symbiotic associations of crustaceans and a pycnogonid with gelatinous zooplankton in the Gulf of California. ---- *Marine Biodiversity*, in press (10 hyperiid species)

GASCA, R. & S. H. D. HADDOCK 2016. The rare deep-living hyperiid amphipod *Megalanceoloides remipes* (Barnard, 1932): complementary description and symbiosis. ---- *Zootaxa* 4178, 138-144. (From the Gulf of California.)

GATES, A. R., M. SHEADER, J. A. WILLIAMS & L. E. HAWKINS 2017. Infection with cerebral metacercariae of microphallic trematode parasites reduces output in the gammarid amphipod *Gammarus insensibilis* (Stock 1966) in UK saline lagoons. ---- *Journal of the Marine Biological Association UK*, in press.

GAVIRA-O'NEILL, K., J. M. GUERRA-GARCIA, J. MOREIRA & M. ROS 2016. Mobile epifauna of the invasive bryozoan *Tricellaria inopinata*: is there a potential invasional meltdown? ---- *Marine Biodiversity*, in press. (Nine amphipod spp in Table 2)

GEROVASILEIOU, V., C. C. CHINTIROGLOU, D. KONSTANTINOU & E. VOULTSIADOU 2016. Sponges as "living hotels" in Mediterranean marine caves. ---- *Scientia Marina* 80, 279-289. (Six amphipod spp in Table 1.)

GERRINGER, M. E. , B. N. POPP, T. D. LINLEY, A. J. JAMIESON & J. C. DRAZEN 2017. Comparative feeding ecology of abyssal and hadal fishes through stomach content and amino acid isotope analysis. ---- *Deep-Sea Research I* 121, 110-120.

GESTOSO, I., P. RAMALHOSA, P. OLIVEIRA & J. CANNING-CLODE 2017. Marine protected communities against biological invasions: A case study from an offshore island. ---- *Marine Pollution Bulletin* 119, 72-80 (A Portuguese study.)

GHORBANZADEH ZAFERANI, S. G., A. MACHINCHIAN MORADI, R. MOUSAVI NADUSHAN, A. R. SARI & S. M. R. FATEMI 2015?. Spatial and temporal patterns of benthic macrofauna in Gorgan Bay, south Caspian Sea, Iran. ---- *Iranian Journal of Fisheries Sciences* 16, 252-274.

GISMONDI, E. & J. P. THOMÉ 2016. Transcriptome of the freshwater amphipod *Gammarus pulex* hepatopancreas. ---- *Genomics Data* 8, 91-92.

GLAZIER, D. S. & D. A. PAUL 2017. Ecology of ontogenetic body-mass scaling of gill-surface area in a freshwater crustacean. ---- *Journal of Experimental Biology* 220, 2120-2127. (*Gammarus minus*)

GONÇALVES, S. C. 2016. *Crustaceans from temperate sandy beaches: A possible route for management and conservation strategies.* ---- Pp 105-113 in V. Aldarado (ed.) *Crustaceans*. Nova Sciences Publishers, Inc.

GONZALEZ-ROMERO, P., C. CASSELL & J. M. GUERRA-GARCIA 2016. Maturation time and clinging behavior of the invasive amphipod *Caprella scaura* Templeton, 1836 under laboratory conditions. ---- *Zoologica Baetica* 27, 7-23.

GOOS, J. M., R. D. COTHRAN & P. D. JEYASINGH 2017. Within-population variation in the chemistry of life: the stoichiometry of sexual dimorphism to multiple dimensions. ---- *Evolutionary Biology*, in press (*Hyalella* spp)

GÖRANSSON, P. 2017. Changes of benthic fauna in the Kattegat.—An indication of climate change at mid-latitudes? ---- *Estuarine, Coastal and Shelf Science* 194, 276-285. (General decrease, also in ampeliscids, but *Harpinia* increased)

GORBATENKO, K. M., R. P. GRISHAN & S. P. DUDKOV 2017. Biology and distribution of Hyperiids in the Sea of Okhotsk. ---- *Oceanology* 57, 278-288.

GOUILLIEUX, B., J. M. GUERRA-GARCIA & J. C. SORBE 2017. Additional records of *Elasmopus vachoni* Mateus & Mateus, 1966 (Crustacea: Amphipoda: Meridae) from European waters (Tarifa, southern Spain). ---- *Zootaxa* 4299, 561-571. (A complete redescription, and a key to male European *Elasmopus*.)

GOULDING, T. A., M. R. DE ORTE, D. SZALAY, M. D. BASALLOTE, E. A. DeVALLS & A. CESAR 2017. Assessment of the environmental impacts of ocean acidification (OA) and carbon capture and storage (CCS) leaks using the amphipod *Hyale youngi*. ---- *Ecotoxicology* 26, 521-533.

GOUVAEIA, D., A. CHAMOT, H. QUÉAU, J. ARMENGAUD, A. SALVADOR & O. GEFFARD 2017. Assessing the relevance of a multiplexed methodology for proteomic biomarker measurement in the invertebrate species *Gammarus fossarum*: a physiological and ecotoxicological study. ---- *Aquatic toxicology*, in press.

GRABOWSKI, M., A. WYSOCKA & T. MAMOS 2017. Molecular species delimitation methods provide new insight into taxonomy of the endemic *Gammarus* species flock from the ancient Lake Ohrid. ---- *Zoological Journal of the Linnean Society* 29, 1-14. (The situation is very complex. Here 3 new taxa are described and named, *G. sywulai* n. sp. (Ohrid lake offshore), *G. cryptosalemaai* n. sp. (from spring on shore of lake) and *G. cryptoparechiniformis* n. sp. (offshore); the latter 2 are morphologically indistinguishable from *G. salemaai* and *G. parechiniformis*, respectively. A preliminary, very nicely illustrated, key to Ohrid *Gammarus* is presented.)

GREGORY, S. J. 2016. On the terrestrial landhopper *Arcitalitrus dorrieni* (Hunt, 1925) (Amphipoda: Talitridae): Identification and current distribution. ---- *Bulletin of the British Myriapod and Isopod group* 29, 1-13. (Distribution in the UK and Ireland)

GRILO, T. F. & R. ROSA 2017. Intersexuality in aquatic invertebrates: Prevalence and causes. ---- *Science of the Total Environment* 592, 714-728.

GRUNBERG, R. L. & M. V. K. SUKHDEO 2016. Temporal community structure in 2 gregarines (*Rotundula gammarii* and *Heliospora longissimi*) co-infecting the amphipod *Gammarus fasciatus*. ---- *Journal of Parasitology* 103, 6-13.

GUÐMUNDSDOTTIR, R., E. KORNOBIS, B. K. KRISTJANSSON & S. PÁLSSON 2017. Genetic analysis of ciliates living on the groundwater amphipod *Crangonyx islandicus* (Amphipoda, Crangonyctidae). ---- *Acta Zoologica*, in press

GULLO, B. S., M. B. VIRGOLINI & E. C. LOPRETTO 2016. (Testis microanatomy and spermatogenesis of the amphipod *Hyalella curvispina* Shoemaker, 1942.) ---- *Neotropical Biology and Conservation* 11, 80-85 (In Spanish)

GUR, D., B. A. PALMER, S. WEINER & L. ADDADI 2017. Light manipulation by guanine crystals in organisms: biogenic scatterers, mirrors, multilayer reflectors and photonic crystals. ---- *Advanced Functional Materials* 27(6-1603514)

GURKOV, A., E. SHCHAPOVA, D. BEDULINA, B. BADUEV, E. BORVINSKAYA, I. MEGLINSKI & M. TIMOFEYEV 2016. Remote *in vivo* stress assessment of aquatic

animals with microencapsulated biomarkers for environmental monitoring. ---- *Scientific Reports* 6, 35427

HAAVISTO, F., R. KOIVIKKO & V. JORMALAINEN 2017. Defensive role of macroalgal phlorotannins: benefits and trade-offs under natural herbivory. ---- *Marine Ecology Progress Series* 566, 79-90.

HAFER, N. 2016. Conflicts over host manipulation between different parasites and pathogens: Investigating the ecological and medical consequences. ---- *BioEssays*, 38, 1027-1037.

HALE, S. S., H. W. BUFFUM, J. A. KIDDE & M. M. HUGHES 2017. Subtidal benthic invertebrates shifting northward along the US Atlantic coast. ---- *Estuaries and Coasts*, in press

HAN, Q., Q. HAN, J. ZHENG & Q. HAN 2017. Macrobenthic assemblages across a gradient of seagrass habitat in Swan Lake, China. ---- *International Journal of Oceans and Oceanography* 11, 45-61.

HATLEY, J. & N. P. MURPHY 2016. Trouble at the top? Restricted distribution and extreme population isolation in an alpine crustacean assemblage with unexpected lineage diversity. ---- *Freshwater Biology* 61, 1891-1904. (An Australian study. Six lineages of *Neoniphargus* are found.)

HE, Y., B. MEN, X. YANG, Y. LI, H. XU & D. WANG 2017. Investigation of heavy metals release from sediment with bioturbation/bioirrigation. ---- *Chemosphere* 184, 235-243.

HEIJERICK, D. C. & S. CAREY 2017. The toxicity of molybdate to freshwater and marine organisms. III. Generating additional chronic exposure data for the refinement of safe environmental exposure concentrations in the US and Europe. ---- *Science of the Total Environment* 609, 420-428. (*Hyalella azteca*)

HEIM, J. R. 2016. *Are there fitness costs due to the development of pyrethroid resistance in the non-target aquatic amphipod, Hyalella azteca?* ---- M. Sc. Thesis, Southern Illinois University. (Not seen)

HELDT, K. A., S. D. CONNELL, K. ANDERSON, B. D. RUSSELL & P. MUNGULA 2016. Future climate stimulates population out-breaks by relaxing constraints on reproduction. ---- *Scientific Reports* 6, art. 33383.

HELLMANN, C., F. SCHÖLL, S. WORISCHKA, J. BECKER & C. WINKELMANN 2016. River-specific effects of the invasive amphipod *Dikerogammarus villosus* (Crustacea: Amphipoda) on benthic communities. ---- *Biological Invasions* 19, 381-398.

HEMERY, L. G., K. K. POLITANO & S. K. HENKEL 2017. Assessing differences in macrofaunal assemblages as a factor of sieve mesh size, distance between samples, and time of sampling. ---- *Environmental Monitoring and Assessment* 189, 413.

HENRY, Y., G. PISCART, S. CHARLES & H. COLINET 2017. Combined effect of temperature and ammonia on molecular response and survival of the freshwater crustacean *Gammarus pulex*. ---- *Ecotoxicology and Environmental Safety* 137, 42-48.

HERMABESSIÈRE, L., A. DEHAUT, I. PAUL-PONT, C. LACROIX, R. JEZEQUEL, P. SOUDANT & G. DUFLOS 2017. Occurrence and effects of plastic additives on marine environments and organisms: A review. ---- *Chemosphere* 152, 781-792.

HIKI, K., F. NAKAJIMA & T. TOBINO 2016. Causes of highway road dust toxicity to an estuarine amphipod: Evaluating the effects of nicotine. ---- *Chemosphere* 168, 1365-1374. (*Grandidierella japonica*)

HIKI, K., F. NAKAYIMA & T. TOBINO 2017. Application of cDNA-AFLP to biomarker exploration in a non-model species *Grandidierella japonica*. ---- *Ecotoxicology and Environmental Safety* 140, 206-213.

HIRCHE, H.-J., J. LAUDIEN & F. BUCHHOLZ 2016. Near-bottom zooplankton aggregations in Kongsfjorden: implications for pelago-benthic coupling. ---- *Polar Biology* 39, 1897-1912. (*Themisto libellula*, *T. abyssorum* and *T. compressa* and one unidentified sp. in recordings.)

HOLOPAINEN, R., M. LEHTINIEMI, H. E. M. MEIER, J. ALBERTSSON, E. GOROKHOVA, J. KOTTA & M. VIITASALO 2016. Impacts of changing climate on the non-indigenous invertebrates in the northern Baltic Sea by end of the twenty-first century. ---- *Biological Invasions* 18, 3015-3032.

HOVING, H. J. T. & S. H. D. HADDOCK 2017. The giant deep-sea octopus *Haliphron atlanticus* forages on gelatinous fauna. ---- *Scientific Reports* 7, 44952. (A *Vibilia* sp. found with salps in the stomach contents.)

HUDEC, I., C. FIŠER & J. DOLANSKY 2017. *Niphargus diadematus* sp. n. (Crustacea, Amphipoda, Niphargidae), an inhabitant of a shallow subterranean habitat in South Moravia (Czech Republic), ---- *Zootaxa* 4291, 41-60. (Found in spider traps (!) in the Dyje River watershed, Czech Republic. The paper also includes a table listing 19 morphological traits in 64 *Niphargus* species in the *aquilex* aggregate)

HUGHES, L. E. & S. T. AHYONG 2017. The identity of the Australian sand-hopper *Talorchestia pravidactyla* Haswell, 1880 (Amphipoda: Talitridae). ---- *Journal of Crustacean Biology* 37, 53-62. (Species redescribed as *Bellorchestia pravidactyla*; *B. richardsoni* and *B. mariae* turn out to be junior synonyms)

HUGHES, L. E. & T. KAJI 2016. Description of a new species of *Quadrivisio* Stebbing, 1907, from Songkhla Lake, Thailand (Crustacea: Peracarida: Amphipoda: Maeridae). ---- *Raffles Bulletin of Zoology* 64, 351-359. (*Q. meufong* n. sp. . *Q. bengalensis* is redescribed and a key to all species provided.)

HUGHES, L. E. & A. G. B. POORE 2016. *Biancolina japonica* Ishimaru 1996: first record of this burrowing amphipod from Australia and a review of host use in the genus *Biancolina* (Amphipoda: Peracarida: Crustacea). ---- *Marine Biodiversity Records* 9--32

HUMPHREYS, W. F. 2017. *Australasian subterranean biogeography*. ---- Pp 269-294 in M.C.Ebach (ed.): *Handbook of Australasian biogeography*, Boca Raton, FL. (Not seen)

HYUN, Y. S., H. Y. SONG, J. WOO, B. J. LIM, S. OH & H. S. AN 2016. Rapid development and characterization of microsatellite markers for the sandhopper *Trinorchestia longiramus* Jo, 1988 (Amphipoda, Talitridae) in Korea using a 454 pyrosequencing approach. ---- *Crustaceana* 89, 1701-1715.

IACARELLA, J. C., E. J. HUDGINS, J. T. A. DICK & A. RICCIARDI 2017. Predatory behaviour of an invasive amphipod in response to varying conspecific densities under higher-order predation risk. ---- *Canadian Journal of Fisheries and Aquatic Sciences*, in press. (*Gammarus pulex* in Ireland)

IACIOFANI, D. & S. LO BRUTTO 2016. Re-description of *Orchestia stephenseni* Cecchini, 1928: designation of neotype and senior synonym to *Orchestia constricta* A. Costa, 1853 (Crustacea: Amphipoda: Talitridae) by Reversal of Precedence. ---- *Zootaxa* 4150, 40-60. (*O. constricta* declared a *nomen oblitum*)

IACIOFANI, D. & S. LO BRUTTO 2017. *Parhyale plumicornis* (Crustacea: Amphipoda: Hyalidae): is this an anti-Lessepsian Mediterranean species? Morphological, remarks, molecular markers and ecological notes as tools for future records. ---- *Systematics and Biodiversity* 15, 238-252.

ILTIS, C., F. X. DECHAUME-MONTCHARMONT, M. GALIPAUD, J. MOREAU, L. BOLLACHE & P. LOUAPRE 2017. The curse of being single: both male and female *Gammarus pulex* benefit energetically from precopulatory mate guarding. ---- *Animal Behaviour* 130, 67-72

INOSTROZA, P. A., I. VERA-ESCALONA, A.-J. WICHT, M. KRAUSS, W. BRACK & H. NORF 2016. Anthropogenic stressors shape genetic structure: insights from a model freshwater population along a land use gradient. ---- *Environmental Science & Technology* 50, 11346-11356.

IVANOVA, N. Y. & S. D. GREBELNYI 2017. On the food of the Antarctic sea anemone *Urticinopsis antarctica* Carlgren, 1927 (Actiniidae, Actiniaria, Anthozoa). ---- *Journal of the Marine Biological Association UK* 97, 29-34. (3 specimens of *Conicostoma* sp apparently symbionts.)

IWASA-ARAI, T., A. S. FREIRE, A. C. COLOSIO & C. S. SEREJO 2016. Ontogenetic development and redescription of the whale louse *Cyamus boopis* Lütken, 1870 (Crustacea: Amphipoda: Cyamidae), ectoparasite of humpback whale *Megaptera novaeangliae* (Mammalia: Cetacea: Balaenopteridae). ---- *Marine Biodiversity*, in press (A lectotype is chosen. Table 1 lists the 7 species of whale lice reported from Brazil) (Unsure when this was finally publishes WV)

IWASA-ARAI, T., S. SICILIANO & C. S. SEREJO 2017. Life history told by a whale louse: a possible interaction of a southern right whale *Eubalaena australis* calf with humpback whale *Megaptera novangliae*. ---- *Helgoland Marine Research* 71-6 (*Cyamus boopis* found on stranded right whale in Brazil.)

JACKSON, M. C., R. J. WASSERMAN, J. GREY, A. RICCIARDI, J. T. A. DICK & M. E. ALEXANDER 2017. Novel and disrupted trophic links following invasion in freshwater ecosystems. ---- *Advances in Ecological Research* 57, 55-97.

JAKOB, L., D. S. BEDULINA, D. V. AXENOV-GRIBANOV, M. GINZBURG, Z. M. SHATILINA, Y. A. LUBYAGA, E. V. MADYAROVA, A. N. GURKOV, M. A. TIMOFEYEV, H. O. PORTNER, F. J. SARTORIS, R. ALTENBURGER & T. LUCKENBACH 2017. Uptake kinetics and subcellular compartmentalization explain lethal but not sublethal effects of cadmium in two closely related amphipod species. ---- *Environmental Science & Technology* 51, 7208-7218. (*Eulimnogammarus cyanus* and *E. verrucosus*.)

JAMES, W. R. & J. B. McCLINTOCK 2017. Anti-predator responses of amphipods are more effective in the presence of conspecific chemical cues. ---- *Hydrobiologia* 797, 277-288..

JAMIESON, A. J., T. MALKOCS, S. B. PIERTNEY, T. FUJII & Z. ZHANG 2017. Bioaccumulation of persistent organic pollutants in the deepest ocean fauna. ---- *Nature Ecology and Evolution* 1, e 0051 (Two *Hirondellea* spp and *Bathycallisoma schellenbergi* from 10 000m deep contained PCBs and PBDs!!)

JANIAK, D. S., J. N. ADAMS, B. RUBINOFF & R. W. OSMAN 2016. Predator-prey interactions of the polyclad, *Euplona gracilis*, and the amphipod, *Apocorophium lacustre*, in the Chesapeake Bay. ---- *Estuaries and Coasts* 40, 511-523. (*Euplona* is a significant predator of *Apocorophium*.)

JARAMILLO, E., J. E. DUGAN, D. M. HUBBARD, H. CONTRERAS, C. DUARTE, A. ACUÑA & D. S. SCHOEMAN 2017. Macroscale patterns in body size of intertidal crustaceans provide insights on climate change effects. ---- *Plos One* 12(5), e0177116. (i.a. *Orchestoidea tuberculata*)

JAZDZEWSKA, A. M. & J. SICINSKI 2017. Assemblages and habitat preferences of soft bottom Antarctic Amphipoda: Admiralty Bay case study. ---- *Polar Biology*, in press.

JELASSI, R., H. KHEMAISSIA, M. ZIMMER, D. GARBE-SCHÖNBERG & K. NASRI-AMMAR 2017. Influence of environmental conditions on the distribution of Amphipoda, Talitridae, in the lagoon complex of Ghar El Melh (north-east of Tunisia). ---- *African Journal of Ecology*, in press

JEPPE, K. J., C. R. KELLAR, S. MARSHALL, V. COLOMBO, G. M. SINCLAIR & V. PETTIGROVE 2017. Bifenthrin causes toxicity in urban stormwater wetlands: Field and laboratory assessment using *Austrochiltonia* (Amphipoda). ---- *Environmental Science & Technology* 51, 7254-7262.

JERMACZ, Ł., A. DZIERŻYŃSKA-BIAŁOŃCZYK & A. KOBAC 2016. Predator diet, origin or both? Factors determining responses of omnivorous amphipods to predation cues. ---- *Hydrobiologia* in press. DOI:10.1007/s10750-106-2917-1

JERNELÖV, A. 2017. *Zebra mussels in western Europe and North America*. ---- Pp 11-30 in A. Jernelöv. The long term fate of invasive species. Springer International Publishing.

JIMENEZ CAMPEAN, A. & C. O. COLEMAN 2017. A new species of *Sicafodia* Just, 2004 (Crustacea, Amphipoda, Sicafodiidae) from the North Atlantic. ---- *Marine Biodiversity*, in press (*S. iceage* n. sp. from 61°54' N, 10°13' W)

JOHANNESSEN, E., L.L. JØRGENSEN, M. FOSSHEIM, R. PRIMICERIO, M. GREEN ACRE, P.A. LJUBIN, A.V. DOLGOV, R.B. INGVALDSEN, N.A. ANISIMOVA & I.E. MA NUSHIN 2017. Large-scale patterns in community structure of benthos and fish in the Barents Sea. ---- *Polar Biology* 40, 237-246. (A few amphipods mentioned as drivers, trawl-based data.)

JOHNSON, L. E. & R. T. PAINE 2016. Consistency in a marine algal-grazer interaction over multiple scales. ---- *Journal of Phycology* 52, 942-950. (Not seen)

JUDGE, J. & J. P. BARRY 2016. Macroinvertebrate community assembly on deep-sea wood falls in Monterey Bay is strongly influenced by wood type. ---- *Ecology* 97, 3031-3043. (*Bathyceradocus* n. sp., *Seba bathybia* and *Paronesimoides voightae*.)

JUNG, T. W., H. K. CHOI, M.-S. KIM & S. M. YOON 2017. Two new species of amphipods (Crustacea: Amphipoda, Photidae) from Korean waters with re-description of *Gammaropsis longipropodi*. ---- *Zootaxa* 4300, 380-402. (Deals with

Gammaropsis longipropodi, *Photis stridulus* n. sp. (Maando Island) and *Podocerospis clavapes* n. sp. (Somaemuldo Island).)

JUNG, T. W., M.-S. KIM, H.-Y. SOH & S. M. YOON 2016. A new species of *Eusirus* from Jeju Island, Korea (Crustacea, Amphipoda, Eusiridae). ---- *ZooKeys* 640, 19-35. (*E. bulbodigitus* n. sp., with a key to N. Pacific *Eusirus*.)

JUNG, T. W., J. G. KIM & S. M. YOON 2016. Two new species of pontogeneiid amphipods (Crustacea, Senticaudata, Calliopidae) from Korean waters. ---- *ZooKeys* 635, 53-79. (Deals with *Eusiroides pilopalpus* n. sp. (Jeju Island) and *Paramoera dentipleurae* n. sp. (also Jeju Island).)

JUNG, T. W. & S. M. YOON 2016. *Nanopalpus*, replacement name for the Korean nuuanuid amphipod *Parvipalpus* Jung & Yoon, 2016 (Crustacea: Amphipoda: Nuuanuidae), preoccupied by *Parvipalpus* Mayer, 1890 (Crustacea: Amphipoda: Caprellidae). ---- *Journal of Natural History* 50, 3029-3030..

JUST, J. 2017. Siphonoecetini Just, 1983 (Crustacea, Amphipoda, Ischyroceridae) 11: *Cephaloecetes schioettei* sp. nov. from The Philippines. ---- *Zootaxa* 4272, 496-500.

KAIM-MALKA, R. A., D. BELLAN-SANTINI & J.-C. DAUVIN 2016. On some *Haploops* species collected in the North Atlantic Ocean with the description of *Haploops islandicus* n. sp. (Crustacea: Gammaridea: Ampeliscidae) (Contribution to the knowledge of the genus *Haploops*.8.). ---- *Zootaxa* 4179, 42-76. (Deals with *Haploops carinata* Liljeborg, 1855 (revived), *H. setosa*, *H. robusta* Sars, 1891 (revived) and *H. islandica* n. sp. (66°59'N, 8°48'W, 1630m). A synoptic table compares the four species, and an illustrated key to all species in the genus is presented.)

KALINKINA, N., A. SIDOROVA, T. POLYAKOVA, N. BELIKNA, N. BEREZINA & I. LITVINOVA 2016. (Decline in the deepwater benthic communities abundance in the Onego Lake under multifactor influence.) ---- *Principy Ekologii* 5, 47-68. (In Russian)

KELLER, R. P., G. HABEEH, T. HENRY & J. BRENNER 2017. Non-native amphipod, *Apocorophium lacustre* (Vanhoffen, 1911), in the Illinois River and Chicago Area Waterway System. ---- *Management of Biological Invasions* 8, in press.

KENCHINGTON, E., I. YASHAYAEV, O. S. TENDAL & H. JØRGENSEN 2017. Water mass characteristics and associated fauna of a recently discovered *Lophelia pertusa* (Scleractinia: Anthozoa) reef in Greenlandic waters. ---- *Polar Biology* 40, 321-337. (*Caprella rinki*, *Gitana cf. rostrata* and a stegocephalid reported)

KHEDHRI, I., H. DJABOU & A. AFLI 2016. Does increased connectivity with the Mediterranean Sea improve the ecological status of the macroinvertebrates in the lagoon of Boughrara (SW Mediterranean)? ---- *Community Ecology* 17, 156-166.

KHODADADINA, M., KARIMZADEH, K. & ZAHMATKESH, A. 2016. Total lipid, fatty acid composition and lipid peroxidation of *Pontogammarus maeoticus* (Crustacea, Amphipoda, Pontogammaridae) in Caspian Sea, Iran. ---- *Aquaculture, Aquarium, Conservation & Legislation - International Journal of the Bioflux Society* 9(5), 985-992.

KNIGHT, C. A., J. M. R. HUGHES & T. JOHNS 2017. What drives non-native amphipod distributions in the river Thames? The role of habitat and human activity on species abundance. ---- *Crustaceana* 90, 399-416.

KO, A., K. H. PARK & S.-G. JO 2017. First record of *Sinocorophium homoceratum* (Yu, 1938) (Crustacea, Amphipoda, Corophiidae) from Korea. ---- *Ocean Science Journal* 52, 277-281. (Species is redescribed and illustrated.)

KOBAK, J., Ł. JERMACZ, D. RUTKOWSKA, P. PAWŁOWSKA, L. WITOWSKA & M. POZNANSKA 2016. Impact of predators and competitors on the depth selection of two invasive gammarids. ---- *Journal of Zoology* 301, 174-183. DOI: 10.1111/jzo.12409 (Behaviour of *Dikerogammarus villosus* and *Pontogammarus robustoides* when exposed to a predator goby.)

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LABAY, V. 2016. Review of amphipods of the *Melita*-group (Amphipoda: Melitidae) from the coastal waters of Sakhalin Island (Far East Russia). III. Genera *Abludomelita* Karaman, 1981 and *Melita* Leach, 1814. ---- *Zootaxa* 4156, 1-73. (This important monograph deals in depth with the taxa in the *Melita*-*Abludomelita* group. As a result, a number of taxa are transferred to other genera. The genus *Nurina* is synonymized with *Melita*, while *Paraniphargus* is revived. *Abludomelita rotundactyla* is transferred from *Melita*, with *Megamoera aequidentata* as a junior synonym; it, *A. klitinii* n. sp. (Tatar Strait, SW shelf of Sakhalin Island) and *A. okhotensis* n. sp. (Kashevarova Shoal, Sea of Okhotsk) are fully described, and a key to *Abludomelita* is presented. In the genus *Melita* s.l. *M. almagosa*, *M. annandalei*, *M. cognata*, *M. dulcicola*, *M. latiflagella*, *M. oba*, and *M. valesi* are transferred to *Paraniphargus*; *Melita awa*, *M. hainanensis* and *M. plumulosa* to *Josephosella*; *Melita amoena*, *M. breviarticulata*, *M. denticulata*, *M. huanghaiensis*, *M. japonica*, *M. machaera*, *M. mucronata*, *M. rotundactyla* and *M. unamoena* to *Abludomelita*; *Melita leioteson*, *M. reidi* and *M. shiomodari* to *Tegano*. Here described is *Melita shimizui sakhalinensis* n. ssp (Aniva Bay, Sea of Okhotsk), and a key to North-Pacific *Melita* is presented. The genus *Paraniphargus* is discussed, and 2 new genera erected: *Barnardomelita* n. gen. for *Melita matilda*, and *Ledoyeromelita* n. gen. for *Melita excavata* and probably also *M. festiva*.)

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Zaramillidae fam. nov.). ---- *Zootaxa* 4169, 387-389. (Contains only *Zaramilla kergueleni*.)

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MANKO, M. J., A. W. SŁOMSKA & K. JAZDZEWSKI 2017. Siphonophora of the Gulf of Aqaba (Red Sea) and their associations with crustaceans. ---- *Marine Biology Research* 11, 480-485. (Hyperiid associates listed in Table 2)

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MAUNOURY-DANGER, V. FELTEN, C. BOJLE, F. FRAYSSE, M. C. PONCE, O. DEDOURGE-GEFFARD, A. GEFFARD, F. GUÉROLD & M. DANGER 2017. Metal release from contaminated leaf litter and leachate toxicity for the freshwater crustacean *Gammarus fossarum*. ---- *Environmental Science and Pollution Research*, in press.

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MEYER, K. S., S. D. BROOKE, A. K. SWEETMAN, M. WOLF & C. M. YOUNG 2017. Invertebrate communities on historical shipwrecks in the western Atlantic: relation to islands. ---- *Marine Ecology Progress Series* 566, 17-26.

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- MIKKELSEN, N. & T. PEDERSEN 2017. Invasive red king crabs feed on both spawned-out capelin and their eggs. ---- *Marine Ecology Progress Series* 563, 139-155.
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- MOHAN, S. D., T. L. CONNELLY, C. M. HARRIS, K. H. DUNTON & J. W. McCLELLAND 2016. Seasonal trophic linkages in Arctic marine invertebrates assessed via fatty acids and compound-specific stable isotopes. ---- *Ecosphere* 7-8 (6 amphipods, esp. *Onisimus glacialis*.)
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- MONROY-VELAZQUEZ, L. V., R. E. RODRIGUEZ-MARTINEZ & F. ALVAREZ 2017. Taxonomic richness and abundance of cryptic peracarid crustaceans in the Puerto Morelos Reef National Park, Mexico. ---- *Peer Journal* 5, e3411. (Amphipods listed in Table 1)
- MOORE, A. F. P. & J. E. DUFFY 2016. Foundation species identity and trophic complexity affect experimental seagrass communities. ---- *Marine Ecology Progress Series* 556, 105-121. (i.a. *Grandidierella japonica*)
- MORAIS, P. & M. REICHARD 2017. Cryptic invasions: A review. ---- *Science of the Total Environment*, in press. (Cryptic invasions are either invasions of non-native lineages within their species native range, or invasions of non-native species, that are not recognized because of misidentification as a different species.)
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ODABASI, S., D. A. ODABASI, F. CAKIR & D. BAL 2016. A preliminary investigation on the lipid content and fatty acid composition of *Gammarus komareki* (Schäferna 1922) (Crustacea: Amphipoda).. ---- *Turkish Journal of Aquatic Sciences* 31, 59-67.

OJAVEER, H., S. OLENIN, A. NARSCIUS, A.-B. FLORIN, E. EZHOVA, S. GOLLASCH, K. R. JENSEN, M. LEHTINIEMI, D. MINCHIN, M. NORMAN-SAREMBA & S. STRÅKE 2016. Dynamics of biological invasions and pathways over time: a case study of a temperate coastal sea. ---- *Biological Invasions* 19, 799-813 (The Baltic Sea)

ORTIZ, M. & R. LALANA 2016. Estado actual del conocimiento de los anfípodos (Crustacea, Peracarida), de Cuba: Morfología, Historia, Taxonomía y Bibliografía. (Current state of knowledge of the amphipods (Crustacea, Peracarida), of Cuba: Morphology, History, Taxonomy and Bibliography.) ---- *Revista Investigaciones Marinas* 36(1), 1-19. (In Spanish. Table 1 furnishes data on all species described from Cuban waters.)).

ORTIZ, M. & I. WINFIELD 2017. A new species of *Nuuanu* (Crustacea, Amphipoda, Nuuanidae) from a Caribbean coral reef with identification keys to males and females of Nuuanu species. ---- *Zootaxa* 4294, 197-208. (*N. jaumei* n. sp from Puerto Morelos reef, Quintana Roo, Mexico.)

OUNIFI-BEN AMOR, K., M. M. BEN AMOR, M. RIFI & J. BEN SOUSSI 2017. Diversity of crustacean species from Tunis Southern Lagoon (Central Mediterranean) after an ecological restoration. ---- *Cahiers de Biologie Marine* 58, 49-67.

ÖZBEK, M., A. TASDEMOR & S. YILDIZ 2016. (Benthic macroinvertebrates of Adigüzel Reservoir (Denizli, Turkey).) ---- *Ege Journal of Fisheries and Aquatic Sciences* 33, 259-263. (In Turkish. *Pontogammarus robustoides*)

PAAR, M., A. VORONKOV, H. HOP, T. BREY, I. BARTSCH, M. SCHWANITZ, C. WIENCKE, B. LEBRETON, R. ASMUS & H. ASMUS 2016. Temporal shift in biomass

and production of macrozoobenthos in the macroalgal belt at Hansneset, Kongsfjorden, after 15 years. ---- *Polar Biology* 39, 2065-2076.

PAGANELLI, D., A. GAZZOLA, M. RODOLFI, R. SCONFIETTI & A. M. PICCO 2017. Trophic preference and preliminary indication of phylloplane fungal influence on the diet of the non-native *Gammarus roeselii* Gervais 1835 (Amphipoda, Gammaridae) in the sub-lacustrine Ticino river basin (Lombardy, Northern Italy): ---- *Italian Journal of Mycology* 46, 37-47

PAGANELLI, D., A. PANDOLFI & R. SCONFIETTI 2017. First record of eyeless specimens of *Gammarus roeselii* Gervais, 1835 (Amphipoda, Gammaridae) in a small stream of the sub-lacustrine Ticino River basin (Lombardy, Northern Italy). ---- *Atti del Società Italiana di Scienza Naturale del Museo Civico de Storia Naturale Milano* 4, 105-107.

PASSARELLI, M. C., I. RIBA, A. CESAR, F. SERRANO-BERNARDO & T. A. DeVALLS 2017. Assessing the influence of ocean acidification to marine amphipods: A comparative study. ---- *Science of the Total Environment* 505, 759-768. (*Ampelisca brevicornis* and *Hyale youngi*)

PAVESI, L. & J. OLESEN 2017. Functional morphology and environmental adaptations of mouthparts in the driftwood amphipod *Macarorchestia remyi* (Schellenberg, 1950), and a comparison with the sandhopper *Talitrus saltator* (Montagu, 1808) (Amphipoda: Talitridae). ---- *Journal of Crustacean Biology* 37, 37-44.

PEART, R. A. 2017. A synopsis and key to the genus *Exampithoe* K.H.Barnard, 1925 (Amphipoda: Senticaudata: Ampithoidae), with descriptions of five new species.. ---- *Journal of Crustacean Biology* 37, 63-75. (Deals with *E. ecklonicola* n. sp. ((Cape Banks, NSW), *E. helenae* n. sp. (Geraldton, W. Austr.), *E. malus* n. sp. Dampier archipelago, W. Austr.), *E. otway* n. sp. Cape Otway, Vict.) and *E. vasse* n. sp. nr Yallingup, W. Austr.). A key to all *Exampithoe* is provided. *E. waratah* is transferred to *Ampithoe*.)

PELLAN, L., V. MÉDOC, D. RENAULT, T. SPATARO & C. PISCART 2016. Feeding choice and predation pressure of two invasive gammarids, *Gammarus tigrinus* and *Dikerogammarus villosus*, under increasing temperature. ---- *Hydrobiologia* 781, 43-54.

PERES, P. A. S., M. AZEVEDO-SILVA & F. P. P. LEITE 2017. Development and characterization of novel microsatellite loci for the amphipod *Cymadusa filosa*. ---- *Marine Biodiversity*, in press.

PEREZ-SCHULTHEISS, J. 2016. Synopsis of the superfamily Lysianassoidea (Amphipoda: Gammaridea) in Chile. ---- *Boletín del Museo Nacional de Historia Natural, Chile* 65, 193-246. (A most welcome critical survey of all that is known of Chilean Lysianassoidea. It contains a fair number of large range extensions, as well as some classificatory changes: the new genus *Exuristes* (type *Uristes yamana*) is erected for *E. yamana* and *E. serratus*, both transferred from *Uristes*, while *Tryphosella schellenbergi* and *T. serrata* are transferred to *Uristes*, and the classification of *Uristes paramoi* in this genus is confirmed. Maps showing the Chilean distribution of all species and a key to Chilean Lysianassoidea are also provided.)

PERRE, C. de, T. M. MURPHY & M. J. LYDY 2017. Mixture toxicity of phostebupirin and cyfluthrin: Species-specific responses. ---- *Environmental Toxicology and Chemistry* 36, 1947-1954 (i.a. *Hyalella azteca*)

PETERS, J. 2017. We've polluted hadal zones (deep sea trenches) before we even could explore them. ---- *Scienceosaurus*, 3 pp

PETERS, K. & T. R. ROBINSON 2017. First record of the marine alien amphipod *Caprella mutica* (Schurin, 1935) in South Africa. ---- *BioInvasion Records* 6, in press.

PETERS, K., K. SINK & T. B. ROBINSON 2017. Raising the flag on marine alien fouling species. ---- *Management of Biological Invasions* 8, 1-11. (A South African study)

PETROWSKI, S., M. MOLIS, K. SCHACHTL & C. BUSCHBAUM 2016. Do bioturbation and consumption affect coastal Arctic marine soft-bottom communities? ---- *Polar Biology* 39, 2141-2153.

PHILLIPS, I. D., J.-M. DAVIES, M. F. BOWMAN & D. P. CHIVERS 2016. Macroinvertebrate communities in a Northern Great Plains River are strongly shaped by naturally occurring suspended sediments: implications for ecosystem health assessment. ---- *Freshwater Science* 35, 1354- 1364.

POI, A. S. G., M. E. GALASSI, R. P. CARNEVALI & L. I. GALLARDO 2016. Leaf litter and invertebrate colonization: the role of macroconsumers in a subtropical wetland (Corrientes, Argentina). ---- *Wetlands* 37, 135-143. (*Hyalella curvispina*)

POULIN, R. & G. PEREZ-PONCE DE LEON 2017. Global analysis reveals that cryptic diversity is linked with habitat but not mode of life. ---- *Journal of Evolutionary Biology* 30, 641-649.

PROSSER, R. S., A. J. BARTLETT, D. MILANI, E. A. M. HOLMAN, H. IKERT, D. SCHISLER, J. TOITO, J. L. PARROTT, P. L. GILLIE & V. K. BALAKRISHNAN 2017. Variation in the toxicity of sediment-associated substituted phenylamine antioxidants to an epibenthic (*Hyalella azteca*) and endobenthic (*Tubifex tubifex*) invertebrate. ---- *Chemosphere* 181, 250-256.

PROTASOV, E. S., D. V. AXENOV-GRIBANOV, Y. V. REBETS, I. V. VOYTSEKHOOVSKAYA, B. T. TOKOVENKO, Z. M. SHATILINA, A. N. LUSHETSKYY & M. A. TIMOFEYEV 2017. The diversity and antibiotic properties of actinobacteria associated with endemic deepwater amphipods of Lake Baikal. ---- *Antonie van Leeuwenhoek*, in press. (*Ommatogammarus albinus* and *O. flavus*)

PRYGIEL, E., G. BILLON, A. FRANÇOIS, D. DUMOULIN, O. GEFFARD, J. CRIQUET & J. PRYGIEL 2016. Active biomonitoring for assessing effects of metal polluted sediment resuspension on gammarid amphipods during fluvial traffic. ---- *Environmental Pollution* 218, 129-139.

PU, Y., B. LARATTE & R. E. IONESCU 2017. Freshwater sediment characterization factors of copper oxide nanoparticles. ---- *IOP Conference Series Earth and Environmental Science* B, 012020 (*Leptocheirus plumulosus*)

RAMIREZ-LLODRA, E., E. RINDE, H. GUNDERSEN, H. CHRISTIE, C. WITH FAGERLI, S. FREDRIKSEN, J. K. GITMARK, K. NORING, M. G. WALDAY & K. M. NORDERHAUG 2017. A snap shot (sic!) of the short-term response of crustaceans to macrophyte detritus in the deep Oslofjord. ---- *Scientific Reports* 6: 23800.

RAMM, T. & G. SCHOLTZ 2017. No sight, no smell? – Brain anatomy of two amphipod crustaceans with different lifestyles.. ---- *Arthropod Structure and Development*, in press (*Niphargus puteanus* and *Orchestia cavimana*.)

RASTRICK, S. P. S. & N. M. WHITELEY 2017. Comparison of whole animal costs of protein synthesis among polar and temperate populations of the same species of gammarid amphipod. ----- *Comparative Biochemistry and Physiology A* 207, 100-106 (*Gammarus oceanicus*)

RATTANAMA, K., M. S. PATTARATUMRONG, P. TOWATANA & K. WONGKAMHAENG 2016. Three new records of gammarid amphipod in Songkhia Lake, Thailand. ---- *Tropical Life Sciences Research* 27 (Suppl. 1), 53-61 (*Hyale dollfusi*, *Grandidierella megnae* & *Hourstonius japonica*)

REMAIL, T. M., S. L. SIMPSON & D. F. JOLLEY 2017. Effects of enhanced bioturbation intensities on the toxicity assessment of legacy-contaminated sediments. ---- *Environmental Pollution* 226, 335-345. (*Victoriopisa australiensis* and *Melita plumulosa* test animals.)

REMY, F., F. DARCHAMBEAU, A. MELCHIOR & G. LEPOINT 2017. Impact of food type on respiration, fractionation and turnover of carbon and nitrogen stable isotopes in the marine amphipod *Gammarus aequicauda* (Martynov, 1931). ---- *Journal of Experimental Marine Biology and Ecology* 486, 358-367.

RITCHIE, H., A. J. JAMIESON & S. B. PIERTNEY 2017. Population genetic structure of two congeneric deep-sea amphipod species from geographically isolated hadal trenches in the Pacific Ocean. ----- *Deep-Sea Research I* 119, 50-57. (*Paralicella tenuipes* and *P. caperesca*.)

RODRIGUEZ, M., L. C. ARMENDARIZ & A. R. CAPITULO 2017. A new genus and species of Ingolfiellidae (Crustacea, Ingolfiellida) from the hyporheic zone in the Sierra de la Ventana, and its biogeographic relevance. ---- *Zootaxa* 4290, 99-112. (Deals with *Yacana ventania* n. gen. n. sp, a taxon apparently most closely related to the South African ingolfiellids.)

ROLLIN, M., R. COULAUD, M. DANGER, B. SOHM, J. FLAYAC, A. BEC, A. CHAUMOT, O. GEFFARD & V. FELTEN 2017. Additive effect of calcium depletion and low resource quality on *Gammarus fossarum* (Crustacea, Amphipoda) life history traits. ---- *Environmental Science and Pollution Research*, in press.

RONCI, L., E. DE MATTHAEIS, C. CHIMENTI & D. DAVOLOS 2017. Arsenic-contaminated freshwater: assessing arsenate and arsenite toxicity and low-dose genotoxicity in *Gammarus elvirae* (Crustacea: Amphipoda). ---- *Ecotoxicology* 26, 581-588.

ROS, M., M. B. LACERDA & J. M. GUERRA-GARCIA 2017. A new caprellid species (Crustacea: Amphipoda: Senticaudata) from Brazil. ---- *Zootaxa* 4258, 388-400. (*Pseudaeginella arraialensis* n. sp. from Arraial do Cabo, Rio de Janeiro state.)

ROS, M., M. B. LACERDA, M. VAZQUEZ-LUIS, S. MASUNARI & J. M. GUERRA-GARCIA 2016. Studying exotics in their native range: Can introduced fouling amphipods expand beyond artificial habitats? ---- *Biological Invasions* 18, 2983-3000. (*Caprella scaura* and *Paracaprella pusilla*.)

RUFCHAEI, R., S. H. HOSEINIFAR, A. MIRJAZANI & HIEN VAN DOAN 2017. Dietary administration of *Pontogammarus maeoticus* extract affects immune response, stress resistance, feed intake and growth performance of Caspian roach (*Rutilus caspicus*) fingerlings. ---- *Fish & Shellfish Immunology* 63, 196-200

RUIZ-DELGADO, C., J. V. VIEIRA, M. J. REYES-MARTINEZ, C. A. BORZONE, R. OUTERELO, J. E. SANCHEZ-MORALES & F. J. GARCIA-GARCIA 2016. Colonisation patterns of supralittoral arthropods in naturally stranded wrack debris on

Atlantic sandy beaches of Brazil and Spain. ---- *Marine & Freshwater Research* 67, 1634-1643.

SANCHEZ-BAYO, F., K. GOKA & D. HAYASAKA 2016. Contamination of the aquatic environment with neonicotinoids and its implication for ecosystems. ---- *Frontiers in Environmental Science*, 2 Nov., 00071

SAWICKI, T. R., J. R. HOLSINGER, E. A. LAZO-WASEM & R. A. LONG 2017. A new species of subterranean amphipod (Amphipoda: Gammaridea: Crangonyctidae) from Florida, with a genetic analysis of associated microbial mats. ---- *Journal of Crustacean Biology* 37, 285-295, 366. (*Crangonyx sulfurium* Sawicki and Holsinger n. sp.)

SCHEPIS, W. R., T. V. MEDIEROS, S. A. SILVA & D. M. S. ABESSA 2016. (Acute toxicity and contamination by metals in the sediments of the Rio dos Bugres, Ilha de São Vicente, SP.) ---- *Brazilian Journal of Aquatic Sciences and Technology* 20, 42- ?? (In Portuguese)

SCHLACHER T. A., B. M. HUTTON, B. I. GILBY, N. PORCH, G. S. MAGUIRE, B. MASLO, R. M. CONNOLLY, A. D. OLDS & M. A. WESTON 2017. Algal subsidies enhance invertebrate prey for threatened shorebirds: A novel conservation tool on ocean beaches? ---- *Estuarine, Coastal and Shelf Science* 191, 28-38 (An Australian study, where they added wrack to upper beaches and got a large increase in talitrids and insects, that rare plovers feed on.)

SCHMIDT, S. I., M. O. CUTHBERT & M. SCHWIENSTEK 2017. Towards an integrated understanding of how micro scale processes shape groundwater ecosystem functions. ---- *Science of the Total Environment* 592, 215-227.

SCHRAM, J. B., K. M. SCHOENROCK, J. B. McCLINTOCK, C. D. AMSLER & R. A. ANGUS 2016. Seawater acidification more than warming presents a challenge for two Antarctic macroalgal-associated amphipods. ---- *Marine Ecology Progress Series* 554, 81-97. (*Gondogeneia antarctica* and *Paradexamine fissicauda*).

SCHRÖTER, F. 2016. Community structure of amphipods from sediment traps in the eastern Fram Strait - interactions with environmental parameters in a changing Arctic.---- *Master thesis, Eberhard Karls Universität, Tübingen* (not seen)

SEPULVEDA, R. D. & N. VALDIVIA 2017. Macrobenthic community changes of intertidal sandy shores after a mega-disturbance. ---- *Estuaries and Coasts* 40, 493-501 (A Chilean study after earthquake and tsunami)

SEYMOUR, M., K. SEPPÄLÄ, E. MÄCHLER & F. ALTERMATT 2016. Lessons from the macroinvertebrates: species-genetic diversity correlations highlight important dissimilar relationships. ---- *Freshwater Biology* 61, 1819-1829. (*Gammarus fossarum* complex)

SHAW, M. D. & G. C. B. POORE 2016. Types of Charles Chilton's Crustacea with comments on his collections in the Canterbury Museum. ---- *Records of the Canterbury Museum* 30, 25-51.

SHERBAKOV, D. Yu., M. V. KOVALENKOVA & O. O. MAIKOVA 2017- Some results of molecular phylogenetic studies of Baikal endemic invertebrates. ---- *Russian Journal of Genetic Applied Research* 7, 345-349. (Earlier published in Russian..)

SHIMOMURA, M. & K. TOMIKAWA 2016. *Epimeria abyssalis* sp. n. from the Kuril-Kamchatka Trench (Crustacea, Amphipoda, Epimeriidae). ---- *ZooKeys* 638,

125-142. (From 5480m deep, the deepest *Epimeria* ever collected. With a key to N. Pacific *Epimeria*.)

SHIN, M.-H., K. WONGKAMHAENG & W. KIM 2016. A new record of *Parametaphoxus asiaensis* (Hirayama, 1992) (Crustacea: Amphipoda: Phoxocephalidae) from Korea. ---- *Journal of Species Research* 5, 533-538.

ŠIDAGYTĖ, E., S. SOLOVJOVA, V. ŠNIAUKSTAITE, A. ŠIAULYS, S. OLENIN & K. ARBAČIAUSKAS 2016. The killer shrimp *Dikerogammarus villosus* (Crustacea, Amphipoda) invades Lithuanian waters, south-eastern Baltic Sea. ---- *Oceanologia* 59, 85-91.

SIDOROV, D. A., A. D. KATZ, S. J. TAYLOR & M. V. CHERTOPRUD 2016. A reassessment of the phylogenetic utility of genus-level morphological characters in the family Bogidiellidae (Crustacea, Amphipoda), with description of a new species of *Eobogidiella* Karaman, 1981. ---- *ZooKeys* 610, 23-43. (*Eobogidiella venkataramani* n. sp., known from a single specimen from the Shirawati River basin, Western Ghats, India. The authors discuss the value of various morphological characters in the Bogidiellidae, and consider the generic placement of the present new taxon as preliminary.)

SIDOROV, D. A. & G. V. SAMOKHIN 2016. *Kruberia abchasica*, a new genus and species of troglobiont amphipods (Crustacea: Gammaridae) from Kruber Cave (Western Transcaucasia). ---- *Arthropoda Selecta* 23, 371-379. (This new genus is close to the typhlogammarids, recently merged with Gammaridae by Sket and Hou)

SILVA-CAMACHO, D. de S., R. de S. GOMES, J. N. S. SANTOS & F. G. ARAUJO 2017. Distribution of benthic fauna in sediment grains and prop roots of a mangrove channel in south-eastern Brazil. ---- *Journal of the Marine Biological Association UK* 97, 377-385. (*Chelorchestia darwini* numerous on prop roots)

SMEE, D. L., J. A. SANCHES, M. DISKIN & C. TRETTIN 2017. Mangrove expansion into salt marshes alters associated faunal communities. ---- *Estuarine, Coastal and Shelf Science* 187, 306-313.

SMITH, M. E. & P. G. FAIRWEATHER 2016. Effects of proximity to stormwater on the sandy-beach macrofaunal assemblages of metropolitan Adelaide, South Australia. ---- *Marine Environmental Research* 122, 76-81.

SMITH, R. J., J. S. ATWERTSON, E. LAUNER, S. S. TOBE, E. MORELLO, R. LIJS, S. MARRI & J. G. MITCHELL 2016. Stygofauna enhance prokaryotic transport in groundwater ecosystems. ---- *Scientific Reports* 6, art. 32738.

SONG, S. J., J. PARK, J. RYU, H. S. RHO, W. KIM & J. S. KIM 2017. Biodiversity hotspots for marine invertebrates around the Dokdo, East Sea, Korea. Ecological checklist revisited. ---- *Marine Pollution Bulletin* 119, 162-170.

SORRENTINO, R., J. ALVES, R. JOHANSSON & A. R. SENNA 2016. A new species of Cyphocarididae (Crustacea, Amphipoda, Lysianassoidea) from off the northeastern Brazilian coast. ---- *Zootaxa* 4161, 345-356. (*Cyphocaris pedroi* n. sp., from a tuna stomach, St Peter and St Paul Archipelago. With a key to world *Cyphocaris* species.)

SOUZA, C. S. de, L. R. da CONCEIÇÃO & P. de OLIVEIRA MAFALDA JUNIOR 2016. Hyperiid amphipods around the seamounts and islands off northeastern Brazil. ---- *Brazilian Journal of Oceanography* 64(4), 339-352. <http://dx.doi.org/10.1590/S1679-8759201612330640> (Data on 36 species, of which 13 are new to the region.)

SPIKKELAND, I., B. KINSTEN, G. KJELLBERG, J.P. NILSSEN & R. VÄINÖLÄ 2016. The aquatic glacial relict fauna of Norway - an update of distribution and conservation status. ---- *Fauna Norvegica* 36, 51-65. (Amphipods are *Gammaracanthus lacustris*, *Pallaseopsis quadrispinosa* and *Monoporeia affinis*)

SPIKKELAND, I., K. M. OLSEN, B. KINSTEN & G. KJELLBERG 2016 (The freshwater amphipod *Crangonyx pseudogracilis* shown to occur in Norway). ---- *Fauna, Oslo* 69, 24-34. (In Norwegian. Found on Jæren, SW Norway in 2012)

SPILMONT, N., A. HACHET, M. A. FAASSE, J. JOURDE, C. LUCZAK, L. SCURONT & C. ROLET 2016. First records of *Ptilohyale littoralis* (Amphipoda: Hyalidae) and *Boccardia proboscidea* (Polychaeta: Spionidae) from the coast of the English Channel: habitat use and coexistence with other species. ---- *Marine Biodiversity*, in press. (*P. littoralis* found in numbers at Wimereux, Pas de Calais) (NB. I can't find it WV)

STAMATAKI, E. & A. PAVLOPOULOS 2016. Non-insect crustacean models in developmental genetics including an encomium to *Parhyale hawaiiensis*. ---- *Current Opinion in Genetics and Development* 39, 149-156. (Encomium means fulsome, enthusiastic praise; I looked it up)

STOLER, A. B., B. M. WALKER, W. D. HINTZ, D. K. JONES, L. LIND, B. M. MATTES, M. S. SCHULER & R. A. RELYEA 2017. Combined effects of road salt and an insecticide on wetland communities. ---- *Environmental Toxicology and Chemistry* 36, 771-779

STOM, D. I., G. O. ZHDANOVA, M. N. SAKSONOV, A. E. BALAYAN & M. Y. TOLSTOY 2017. Light avoidance in Baikalian amphipods as a test response to toxicants. ---- *Contemporary Problems of Ecology* 10, 77-83. (*Eulimnogammarus vittatus*)

STRAUB, S., P. E. HIRSCH & P. BURKHARDT-HOLM 2017. Biodegradable and petroleum-based microplastics do not differ in their ingestion and excretion but in their biological effects in a freshwater invertebrate *Gammarus fossarum*. ---- *International Journal of Environmental Research and Public Health* 14, 774

STRAUSFELD, N. J., X. MA & G. D. EDGECOMBE 2016. Fossils and the evolution of the arthropod brain. ---- *Current Biology* 26, R989-R1000.

STRODE, E., M. JANSONS, I. PURINA, M. BALODE & N. A. BEREZINA 2017. Sediment quality assessment using survival and embryo malformation tests in amphipod crustaceans: The Gulf of Riga, Baltic Sea AS case study. ---- *Journal of Marine Systems* 172, 93-103

STUBBINGTON, R., J.-P. HOGAN & P. J. WOOD 2017. Characterization of the density and body size of a *Gammarus pulex* (Crustacea: Amphipoda) population in subsurface sediments reflects the sampling technique used. ---- *Hydrobiologia* 788, 293-303.

SUAREZ-JIMENEZ, R., C. D. HEPBURN, G. A. HYNDES, R. J. McLEOD, R. B. TAYLOR & C. L. HURST 2017. Importance of the invasive macroalga *Undaria pinnatifida* as trophic subsidy for a beach consumer. ---- *Marine Biology* 164, art. 113 (A New Zealand study, featuring *Bellorchestia quoyana*.)

SURES, B., M. NACHEV, M. PAHL, D. GRABNER & C. SELBACH 2017. Parasites as drivers of key processes in aquatic ecosystems: Facts and future directions. ---- *Experimental Parasitology*, in press.

SUZUKI, Y., T. NAKANO, S. T. NGUYEN, A. T. T. NGUYEN, H. MORINO & K. TOMIKAWA 2017. A new landhopper genus and species (Crustacea: Amphipoda: Talitridae) from the Anamite Range, Vietnam. ---- *Raffles Bulletin of Zoology* 65, 304-315. (*Solitroides motokawai* n. gen, n. sp. from Ngoc Linh, Kon Tum prov. Vietnam. With a key to Vietnamese talitrids)

TAGHOR, G. L., P. A. RAMEY, C. M. FULLER, R. F. PETRECCA & J. P. GRASSLE 2017. Benthic community structure and sediment properties in Barnegat Bay, New Jersey, before and after hurricane Sandy. ---- *Estuaries and Coasts* 40, 160-172. (Numbers of ampeliscaids greatly increased after hurricane).

TATO, R. & J. MOREIRA 2017. Two new species of the suborder Senticaudata (Crustacea: Amphipoda) from the upper continental slope off Galicia (NW Iberian Peninsula). ---- *Zootaxa* 4300, 217-237. (Deals with *Pareurystheus vituoi* n. sp. and *Photis guerrai* n. sp. (both Ferrol Canyon, 43°54'N, 8°57'W, 1005m) Keys to the genera of *Protomedeiinae*, to *Pareurystheus* species and to Atlantic *Photis* species are provided.)

TAUPP, T., C. HELLMANN, R. GERGES, C. WINKELMANN & M. A. WETZEL 2017. Life under exceptional conditions—Isotopic niches of benthic invertebrates in the estuarine maximum turbidity zone. ---- *Estuaries and Coasts* 40, 502-512. (A study from the Elbe estuary, with i.a. *Bathyporeia pilosa*.)

TAYLOR, J., T. KRUMPEN, T. SOLTWEDEL, J. GUTT & M. BERGMANN 2017. Dynamic benthic megafaunal communities: Assessing temporal variations in structure, composition and diversity at the Arctic deep-sea observatory HAUSGARTEN between 2004 and 2015. ---- *Deep-Sea Research I* 122, 81-94.

TAYLOR, N. G. & A. M. DUNN 2017. Size matters: predation of fish eggs and larvae by native and invasive amphipods. ---- *Biological Invasions*, 19, 89-107.

THIBAUT, T., A. BLANFUNE, C. F. BOUDOURESQUE, S. PERSONNIC, S. RUITTON, E. BALLESTEROS, D. BELLAN-SANTINI, C. N. BIANCHI, S. BUSSOTTI, E. CEBRIAN, A. CHEMINEE, J.-M. CULIOLI, S. DERRIEN-COURTEL, P. GUIDETTI, M. HARMELIN-VIVIEN, B. HEREU, C. MOTTI, J.-C. POGGIALE & M. VERLAQUE 2017. An ecosystem-based approach to assess the status of Mediterranean algae-dominated shallow rocky reefs. ---- *Marine Pollution Bulletin* 117, 311-329.

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NEW TAXA

New order

Ingolfiellida Hansen, 1903 (new status)

New families and subfamilies

Adeliellidae Lowry & Myers, 2017

Ambasiidae Lowry & Myers, 2017

Amphithyridae Zeidler, 2016

Australomicroprotopidae Myers, Lowry & Billingham, 2016

Derjugianidae Lowry & Myers, 2017

Eupronoidae Zeidler, 2016

Pakynidae Lowry & Myers, 2017

Parargissidae Lowry & Myers, 2017

Pseudamphilochidae Lowry & Myers, 2017

Thamneidae Zeidler, 2016

Vemanidae Lowry & Myers, 2017

Zaramillidae Lowry & Myers, 2016

New genera and subgenera

Amphithyropsis Zeidler, 2016

Australomicrotopus Myers, Lowry & Billingham, 2016

Barnardomelita Labay, 2016

Eusceliotes Stebbing, 1888 (rev.)

Exuristes Perez-Schultheiss, 2016

Fluviadulzura Myers, Lowry & Billingham, 2017

Kruberia Sidorov & Samokhin, 2016

Ledoyeromelita Labay, 2016

Lowryella Morino & Miyamoto, 2016

Nanopalpus Jung & Yoon, 2016

Pakynus Lowry & Myers, 2017 (nom. nov.)

Persianorchestia Momtazi, Lowry & Hekmatari, 2017

Solitroides Suzuki, Nakano, Nguyen, Nguyen, Morino & Tomikawa, 2017

Yacana Rodriguez, Armentariz & Capitulo, 2017

Amphithyridae
Australomicroprotopidae
Melitidae
Parascelidae
Uristidae
Hadziidae
Gammaridae
Melitidae
Talitridae
Nuanuidae
Pakynidae
Talitridae
Talitridae
Ingolfiellidae

New species and subspecies:

abchasica Sidorov & Samokhin, 2016 (*Kruberia*)

abyssalis Shimomura & Tomikawa, 2016 (*Epimeria*)

aequilatus Narahara-Nakano, nakano & Tomikawa, 2017 (*Eurythenes*)

alpheus Delic, Svara, Coleman, Trontelj & Fiser, 2017 (*Niphargus*)

alpinus Alther, Fiser & Altermatt, 2016 (*Gammarus*)

anchialinus Delic, Svara, Coleman, Trontelj & Fiser, 2017 (*Niphargus*)

antipodes Delic, Svara, Coleman, Trontelj & Fiser, 2017 (*Niphargus*)

arethusa Delic, Svara, Coleman, Trontelj & Fiser, 2017 (*Niphargus*)

arraialensis Ros, Lacerda & Guerra-Garcia, 2017 (*Pseudaeginella*)

belun Myers, 2016 (*Dulichella*)

boonyanusithii Wongkamhaeng, Dumrongrojwattana & Pattaratumrong, 2016

(*Floresorchestia*) Talitridae

bulbodigitus Jung, Kim, Soh & Yoon, 2016 (*Eusirus*)

Eusiridae

buraphana Wongkamhaeng, Dumrongrojwattana & Pattaratumrong, 2016

(*Floresorchestia*) Talitridae

cajasi Alonso & Jaume, 2017 (*Hyaella*)

Hyalellidae

carinata Liljeborg, 1855 (*Haploops*) (rev.)

Ampeliscidae

clavapes Jung, Choi, Kim, Yoon 2017 (<i>Podiceropsis</i>)	Photidae
cylindrica Zettler & Glück, 2016 (<i>Wallametopa</i>)	Stenothoidae
dentipleurae Jung, Kim & Yoon, 2016 (<i>Paramoera</i>)	Pontogeneiidae
diadematus Hudec, Fiser & Dolansky, 2017 (<i>Niphargus</i>)	Niphargidae
doli Delic, Svava, Coleman, Trontelj & Fiser, 2017 (<i>Niphargus</i>)	Niphargidae
ecklonicola Peart, 2017 (<i>Exampithoe</i>)	Ampithoidae
elegantulus Hou, in Zhang & Hou, 2017 (<i>Pseudocrangonyx</i>)	Pseudocrangonyctidae
fjakae Delic, Svava, Coleman, Trontelj & Fiser, 2017 (<i>Niphargus</i>)	Niphargidae
gudariensis Tomikawa & Sato in Tomikawa et al., 2016 (<i>Pseudocrangonyx</i>)	Pseudocrangonyctidae
guerrai Tato & Moreira 2017 (<i>Photis</i>)	Photidae
heike Tomikawa, Tanaka & Nakano, 2016 (<i>Priscomilitaris</i>)	Priscomilitaridae
helenae Peart, 2017 (<i>Exampithoe</i>)	Ampithoidae
hosseiniei Esmaeili-Rineh, Sari, Fiser & Bargrizaneh, 2017 (<i>Niphargus</i>)	Niphargidae
icapui Andrade & Senna, 2017 (<i>Cymadusa</i>)	Ampithoidae
iceage Jimenez Campean & Coleman, 2017 (<i>Sicafodia</i>)	Sicafodiidae
ilamensis Esmaeili-Rineh, Sari, Fiser & Bargrizaneh, 2017 (<i>Niphargus</i>)	Niphargidae
incaroai Alves, Jonsson & Senna, 2016 (<i>Elasmopus</i>)	Maeridae
islandica Kaim-Malka, Bellan-Santini & Dauvin, 2016 (<i>Haploops</i>)	Ampeliscidae
jaumei Ortiz & Winfield, 2017 (<i>Nuuanu</i>)	Nuuanuidae
klitini Labay, 2016 (<i>Abludomelita</i>)	Melitidae
laminischia Myers, 2016 (<i>Elasmopus</i>)	Maeridae
maculanigra Zeina & Asakura, 2017 (<i>Cerapus</i>)	Ischyroceridae
magnaocularis Eun, Hendrycks & Kim (<i>Protohyale</i>)	Hyalidae
malus Peart, 2017 (<i>Exampithoe</i>)	Ampithoidae
megacoxa Myers, Lowry & Billingham, 2016 (<i>Australomicrotopus</i>)	Australomicrotopidae
meufong Hughes & Kaji, 2016 (<i>Quadrivisio</i>)	Maeridae
motokawai Suzuki, Nakano, Nguyen, Nguyen, Morino & Tomikawa, 2017	(<i>Solitroides</i>)
muotae Fiser, Konec, Alther, Svava & Altermatt, 2016 (<i>Niphargus</i>)	Talitridae
murimali Fiser, Konec, Alther, Svava & Altermatt, 2016 (<i>Niphargus</i>)	Niphargidae
nirvana Montazi, Lowry & Hekmatari, 2017 (<i>Persianorchestia</i>)	Niphargidae
okhotensis Labay, 2016 (<i>Abludomelita</i>)	Talitridae
otway Peart, 2017 (<i>Exampithoe</i>)	Melitidae
pachacutesi Alves, Jonsson & Senna, 2016 (<i>Elasmopus</i>)	Ampithoidae
pedroi Sorrentino, Alves, Johnsson & Senna, 2016 (<i>Cyphocaris</i>)	Maeridae
persicus Esmaeili-Rineh, Sari, Fiser & Bargrizaneh, 2017 (<i>Niphargus</i>)	Cyphocarididae
piloi Myers, Trivedi, Gorsavi & Vahhrajani, 2017 (<i>Parhyale</i>)	Niphargidae
pilopalpus Jung, Kim & Yoon, 2016 (<i>Eusiroides</i>)	Hyalidae
pincikova Delic, Svava, Coleman, Trontelj & Fiser, 2017 (<i>Niphargus</i>)	Pontogeneiidae
queshmensis Laeyghi & Montazi, 2017 (<i>Ampithoe</i>)	Niphargidae
rasae Andrade & Senna, 2017 (<i>Cymadusa</i>)	Ampithoidae
robusta Sars, 1891 (<i>Haploops</i>) (rev.)	Ampithoidae
robustimana Andrade & Senna, 2017 (<i>Ampithoe</i>)	Ampeliscidae
ruffoi Latella & Vonk, in Davolos et al. 2017 (<i>Cryptorchestia</i>)	Ampithoidae
ssp sakhalinensis Labay, 2016 (<i>Melita shimizui</i>)	Talitridae
schioettei Just, 2017 (<i>Cephaloecetes</i>)	Melitidae
siaes Myers, 2016 (<i>Linguimaera</i>)	Ischyroceridae
sohrevardensis Esmaeili-Rineh, Sari, Fiser & Bargrizaneh, 2017 (<i>Niphargus</i>)	Maeridae
spinicauda Myers, Lowry & Billingham, 2017 (<i>Fluviadulzura</i>)	Niphargidae
spinicaudus Kodama, Ohtsuchi & Kon, 2016 (<i>Rhinoecetes</i>)	Niphargidae
stridulus Jung, Choi, Kim, Yoon 2017 (<i>Photus</i>)	Hadziidae
styx Fiser, Konec, Alther, Svava & Altermatt, 2016 (<i>Niphargus</i>)	Ischyroceridae
tartarugae Andrade & Senna, 2017 (<i>Cymadusa</i>)	Photidae
telukrimau Lim, Azman, Takeuchi & Othman, 2017 (<i>Pseudaeginella</i>)	Niphargidae
trinidadensis Andrade & Senna, 2017 (<i>Cymadusa</i>)	Ampithoidae
uai Bastos-Pewreira & Ferreira, 2017 (<i>Spelaeogammarus</i>)	Caprellidae
	Ampithoidae
	Artesiidae

unam Winfield, Hendrickx & Ortiz, 2017 (<i>Trischizostoma</i>)	Trischizostomatidae
vasse Peart, 2017 (<i>Exampithoe</i>)	Ampithoidae
venkataramani Sidorov, Katz, Taylor & Chertoprud, 2016 (<i>Eobogidiella</i>)	Bogidiellidae
ventania Rodriguez, Armendariz & Capitulo, 2017 (<i>Yacana</i>)	Ingolfiellidae
viricochai Alves, Jonsson & Senna, 2016 (<i>Elasmopus</i>)	Maeridae
vitukoi Tato & Moreira, 2017 (<i>Pareurystheus</i>)	Protomedeiinae
wadai Morino & Miyamoto, 2016 (<i>Lowryella</i>)	Talitridae
yahuarhuaci Alves, Jonsson & Senna, 2016 (<i>Elasmopus</i>)	Maeridae
ygara Andrade & Senna, 2017 (<i>Cymadusa</i>)	Ampithoidae
yupanquii Alves, Jonsson & Senna, 2016 (<i>Elasmopus</i>)	Maeridae

Taxonomic overview

Adeliellidae

Ambasiidae

Ampeliscidae

Haploops **carinata** (rev.), **islandica**, **robusta** (rev.)

Amphithyridae

Amphithyropsis

Ampithoidae

Ampithoe **queshmensis**, **robustimana**

Cymadusa **icapui**, **rasae**, **tartarugae**, **trinidadensis**, **ygara**

Exampithoe **ecklonicola**, **helenae**, **malus**, **otway**, **vasse**

Artesiidae

Spelaeogammarus **uai**

Australomicropotopidae

Australomicropotopus megacoxa

Bogidiellidae

Eobogidiella **venkataramani**

Caprellidae

Pseudaeginella **arraialensis**, **telukrimau**

Cyphocarididae

Cyphocaris **pedroi**

Derjugianidae

Epimeriidae

Epimeria **abyssalis**

Eupronoidae

Eurytheneidae

Eurythenes **aequilatus**

Eusiridae

Eusirus **bulbodigitus**

Gammaridae

Gammarus **alpinus**

Kruberia abchasica

Hadziidae

Fluviadulzura spinicauda

Hyalidae

Parhyale **piloi**

Protohyale **magnaocularis**

Hyalellidae

Hyalella **cajasi**

Ingolfiellida

Ingolfiellidae

Yacana ventania

Ischyroceridae

Cephaloecetes **schioettei**
 Cerapus **maculanigra**
 Rhinoecetes **spinicaudus**
 Maeridae
 Elasmopus **incaroai**, **laminischia**, **pachacutesi**, **viracochai**, **yahuarhuaci**, **yupanquii**
 Linguimaera **siaes**
 Quadrivisio **meufong**
 Melitidae
 Abludomelita **klitinii**, **okhotensis**
Barnardomelita
 Dulichiella **belun**
Ledoyeromelita
 Melita shimizui **sakhalinensis**
 Niphargidae
 Niphargus **alpheus**, **anchialinus**, **antipodes**, **arethusa**, **diadematus**, **doli**, **fjakae**,
hosseineiei, **ilamensis**, **muotae**, **murimali**, **persicus**, **pincikovae**, **sohrevardensis**,
styx
 Nuuanuidae
Nanopalpus
 Nuuanu **jaumei**
 Pakynidae
Pakynus
 Parargissidae
 Parascelidae
Eusceliotes (rev.)
 Photidae
 Photis **guerrai**, **stridulus**
 Podoceropsis **clavapes**
 Pontogeneiidae
 Eusiroides **pilopalpus**
 Paramoera **dentopleurae**
 Priscomilitaridae
 Priscomilitaris **heike**
 Protomedeiinae
 Pareurystheus **vitucoi**
Pseudamphilochidae
 Pseudocrangonyctidae
 Pseudocrangonyx **elegantulus**, **gudariensis**
 Sicafodiidae
 Sicafodia **iceage**
 Stenothoidae
 Wallametopa **cylindrica**
 Talitridae
 Cryptorchestia **ruffoi**
 Floresorchestia **boonyanusithii**, **buraphana**
Lowryella wadai
Persianorchestia nirvana
Solitroides motokawai
 Thamneidae
 Trischizostomatidae
 Trischizostoma **unam**
 Uristidae
Exuristes
 Vemanidae
 Zaramillidae

Wim

International Sandy Beaches Symposium (ISBS) – 25 to 29 of May 2018

I am pleased to announce that the 8th International Sandy Beaches Symposium will take place from the 25th to the 29th of May at the Institute for Marine Biology Biotechnology and Aquaculture, Hellenic Centre for Marine Research, Crete, Greece. Many advances have been made since the establishment of sandy beach ecology as a discipline (1st symposium, 1983, Port Elizabeth, South Africa). Below, in a nutshell:



A brief summary of the sandy beach research

Morphophysical aspects were firstly approached and interactions of energy and material were identified as responsible of shaping a beach “personality”. With this background central paradigms about features of the resident fauna and biodiversity patterns were developed. Actually most of them are based on amphipods, as they usually dominate (in abundance) temperate and subtropical beaches. The human-environment perspective appeared soon to be a challenge. For a long time the “pristine condition” was the preferred target of sandy beach research, whether as a baseline or as an impact-control study. But it became more and more evident that the human component cannot be escaped. We actually need to know more about the impacts and their dynamics, if we want to get a clear picture of the system. That is why lately the definition of beaches as “social-ecological systems” is getting more and more in use. On the other hand, while the human presence on sandy beaches, is an obvious feature (you can check yourself in the summer), it is not so easy to address and to share research with beach stakeholders. This is definitely an open challenge.



I am then particularly keen to invite to ISBS2018 researchers and students through the amphipod newsletter, as I believe that this lively and interdisciplinary group will strongly contribute to a correct species-environment vision, often biased in favour of general models, loved by managers but perhaps too general to capture the intrinsic diversity of beaches. Detailed information can be found at www.isbs2018.wordpress.com and updates are also released on <https://www.researchgate.net/project/Sandy-beaches-2018-Linking-knowledge-to-build-integrated-paradigms-and-face-global-change-challenges>.

Looking forward to meet you in Crete,

Lucia



IceAGE amphipods

Senckenberg am Meer (DZMB) is housing a huge amount of crustacean material collected during two expeditions in 2011 and 2013 via IceAGE (Icelandic marine Animals: Genetics and Ecology). The Icelandic waters are of particular interest for studying patterns of diversity with depth, especially for comparing the diversity profiles with depth for amphipods with various functional properties. The animals are from 56 areas between Greenland and Norway from 150 to 3000 m depth. So far 26 461 of the 58 000 amphipod individuals are sorted by numerous enthusiastic colleagues to 42 (!) families during two amphipod workshops in Wilhelmshaven, Germany (see AN40 and Spala, Poland (photos here); the first workshop was entirely funded by the Volkswagen Stiftung. The second IceAGE amphipod workshop piggybacked on the Synthetis and 7th IceAGE workshop in Spala, April 2017.

Anne-Nina Lörz and Ania Jazdzewska



Photos by Ania Jazdzewska and Christian Bomholt

Amphipods take a bite out of the headlines

In August the world became excited about amphipods (as they should!) but for a very different reason than their morphological beauty!

A 16 year boy from Melbourne, Australia was merged in the shallow waters at Dendy Street Beach, Brighton, Australia and when he emerged half an hour later it appeared he had been bitten and 'attacked' by some form of tiny marine creatures.

Once out, this story sent the world's Press into a frenzy! Pictures of the teenager's feet dripping with blood were sent around the world. Warnings were put on webpages in case the images caused some distress.

In Italy the news had a title like "marine insects attack a tourist!"

In UK one person said "I think the thing I love best about this story is how the dad investigated it especially the part about him trying all the different kinds of food. I've never heard of amphipods doing anything like this but I guess the Australian ones are just meaner, like every other animal there."

What could have bitten him? News reports were everything from piranhas to 'Sea lice'!

Its amphipods! Through the media the pressure was on to name them and name them now. Alastair Poore said: "Researchers at Museums Victoria have identified the likely suspect of the "sea lice" attack in Melbourne as lysianassid amphipods. Rare to see amphipods in the news like this!"

Jo Taylor and Genefor Walker-Smith responded to the media on pressure surrounding the "sea bug attack" and why it matters to get the fact right: <https://www.timeshighereducation.com/blog/australian-sea-bug-attack-scientists-getting-our-facts-right-and-why-it-matters>

Meanwhile this news story was the topic of much discussion on the amphipod Facebook page: <https://www.facebook.com/groups/238356639577927/>

So there we have it, it WAS amphipods but they don't usually 'attack' like this but it did make the headlines and allow us amphipod workers to get people to understand and appreciate our beloved animals more.

Related articles:

<http://www.abc.net.au/news/2017-08-07/teens-legs-attack-sea-creatures-identified-by-museums-victoria/8782634>

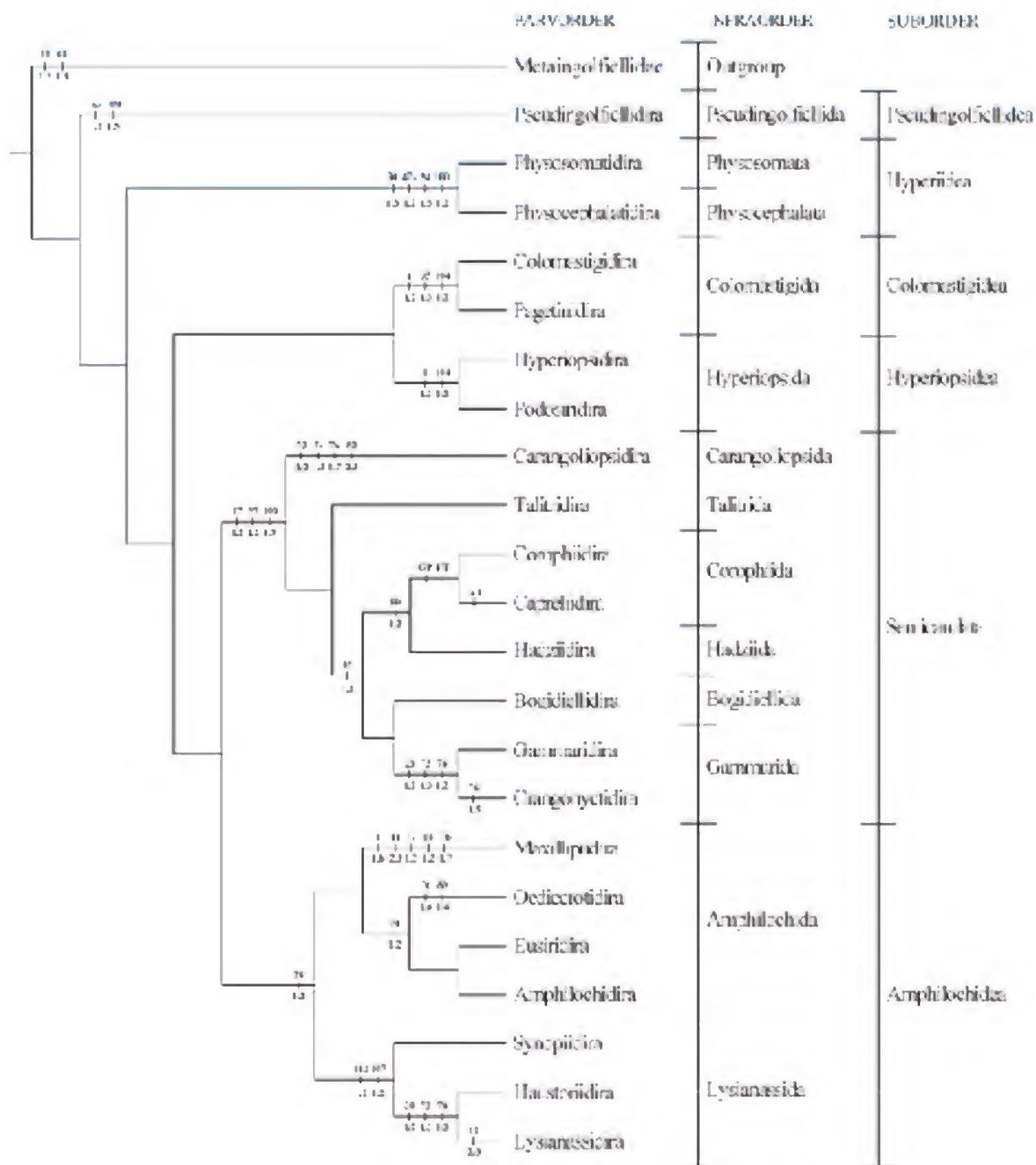
<https://www.washingtonpost.com/amhtml/news/to-your-health/wp/2017/08/07/flesh-eating-sea-bugs-attacked-an-australian-teens-legs-there-was-no-stopping-the-bleeding/>

<https://www.techly.com.au/2017/08/07/melbourne-teen-has-legs-eaten-by-unidentified-sea-creatures/>

Miranda



New proposed higher taxonomy for Amphipods!



Jim Lowry and Alan Myers have published their third paper on the higher taxonomic classifications of the Amphipods this year. Here we present figure 11 from the paper, as a summary of their new classifications after removing Ingolfiellidea to a separate order. The remaining order Amphipoda is now divided into six suborders with respective infraorders and parvorders.